

musicbook:DSD THE UNIVERSAL MUSIC SOURCE

User Manual

Welcome

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Congratulations on the purchase of this device and thank you very much for selecting a LINDEMANN product. We wish you pleasant hours of music listening and long evenings with your favourite recordings.

With the musicbook series you have chosen one of the technologically most advanced and best sounding audio systems. We develop and build our devices in Germany and have put all our passion and more than 20 years of experience into this exceptional product which soundwise leaves nothing to be desired. Discover a new quality of music reproduction that opens up large rooms in a completely relaxed manner and puts vocalists virtually within reach in your living room. Happy listening!

Your LINDEMANN team

Overview Model Versions	Analog Inputs	Digital Inputs	USB Audio	Bluetooth	CD Player	Streamer
musicbook 10 DSD	~	~	~	~	0	0
musicbook 15 DSD	~	~	~	~	~	0
musicbook 20 DSD	~	~	~	~	0	~
musicbook 25 DSD	~	V	~	~	V	~

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Important safety information

musicbook:DSD

Read this user manual carefully.

Carefully observe all **NOTES**. The manual is designed to help you to properly use your new Lindemann product so that you can enjoy all its features. Keep this user manual for future reference.

- Before connecting the device, check to see if your power supply matches the values specified on the type plate. The type plate is located on the bottom of the device.
- When connecting the device, use the included power cord or another appropriate power cord. Operation without protective grounding is not permitted and is dangerous.
- Connect the device with a proper power socket and route the cable so that it cannot be crushed or kinked. Make sure that the power cord remains undamaged and constantly accessible.
- To prevent fire or electric shock, do not expose this device to rain or moisture.
 The device must not be operated outdoors. Protect the product from dripping or
 splashing fluids, and do not place any objects filled with water (such as vases) on
 the product or in its vicinity. As with all electronic devices, liquids should never
 be allowed to penetrate into product.
- Do not make any changes to the product or its accessories. Unauthorized changes may compromise safety, regulatory compliance, and proper function of the device. The warranty is voided in such cases.
- Do not expose the device or the IR remote control to extreme heat, including direct sunlight and fire. Allow waste heat generated during operation to dissipate
 freely. Never operate the device in closed cabinets or near heat sources such as
 radiators or stoyes.
- Set up the device so that the back of the device with the power switch is always
 accessible. Do not use this device unattended. If you will not be operating the
 device for an extended period of time, turn it off using the power switch on the
 back or unplug the power cord. If you notice smoke or a burning smell during
 operation, discontinue using the device immediately by turning off or unplugging
 the power cable from the power socket.
- To clean the device, unplug the power cord and clean the surface with a dry cloth
 or with a little glass cleaner. Make sure that the device is completely dry before
 you reconnect it with the power cord. Never use solvents (such as acetone or
 lacquer thinner) to clean the device.

- Have repair and maintenance work performed by qualified customer service personnel only. Do not try to repair the device yourself. Do not remove or open the device cover; otherwise, you could come into contact with dangerous voltages or be exposed to other hazards. Contact your Lindemann dealer or Lindemann audiotechnik directly to receive qualified customer service.
- Electronic equipment is not household waste but must be disposed of properly in accordance with Directive 2002/96/EC on electrical and electronic waste. At the end of its useful life, dispose of this device at a designated public collection point.

Scope of Delivery I



musicbook DSD

The musicbook DSD is a converter-preamp with Bluetooth, USB Audio, CD player (musicbook 15/25) and streamer (musicbook 20/25).

WLAN Antenna and Bluetooth Antenna

Antenna for rear side mounting on the musicbook DSD. Will be required for WLAN and/or Bluetooth operation.

Infrared Remote Control

IR remote control with built-in rechargeable lithium ion accumulator.

. LAN Cable

CAT 6 patch cable (5 m /16 ft.) for connecting the musicbook DSD to the router.

. USB Cable

USB cable (1 m / 3 ft.) for connecting the musicbook DSD to your computer.

. USB Charging Cable

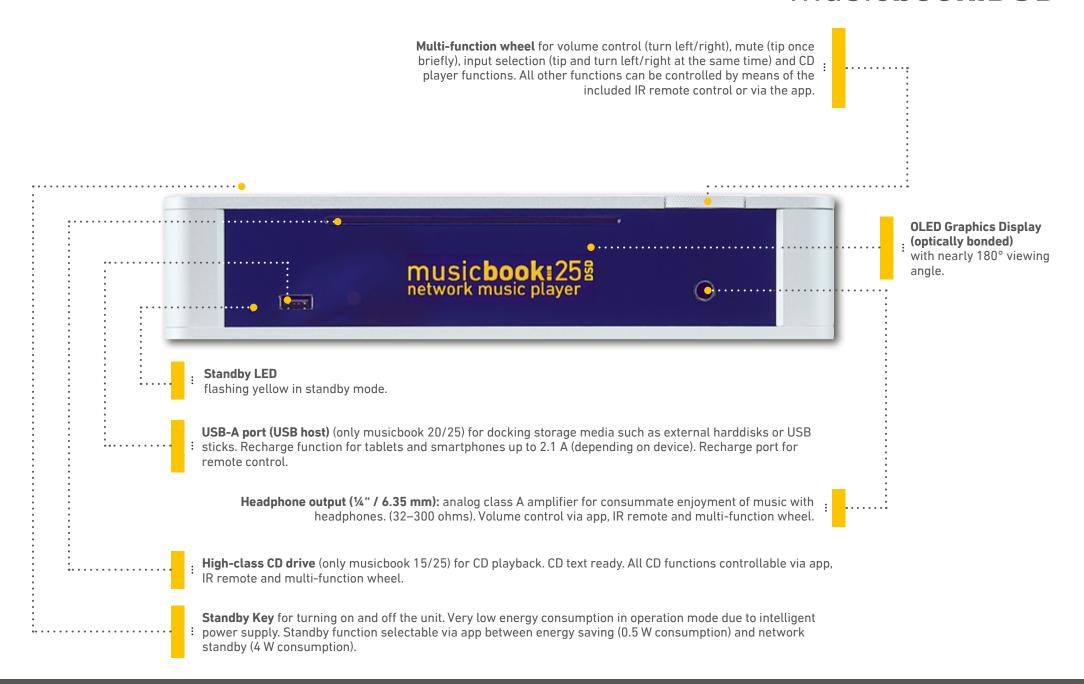
USB charging cable (1 m / 3 ft.) for recharging the IR remote control.

Power Cord

Power cord with Schuko plug (2 m / 6 ft.) for connecting the unit to the mains grid.

Front View

musicbook:DSD

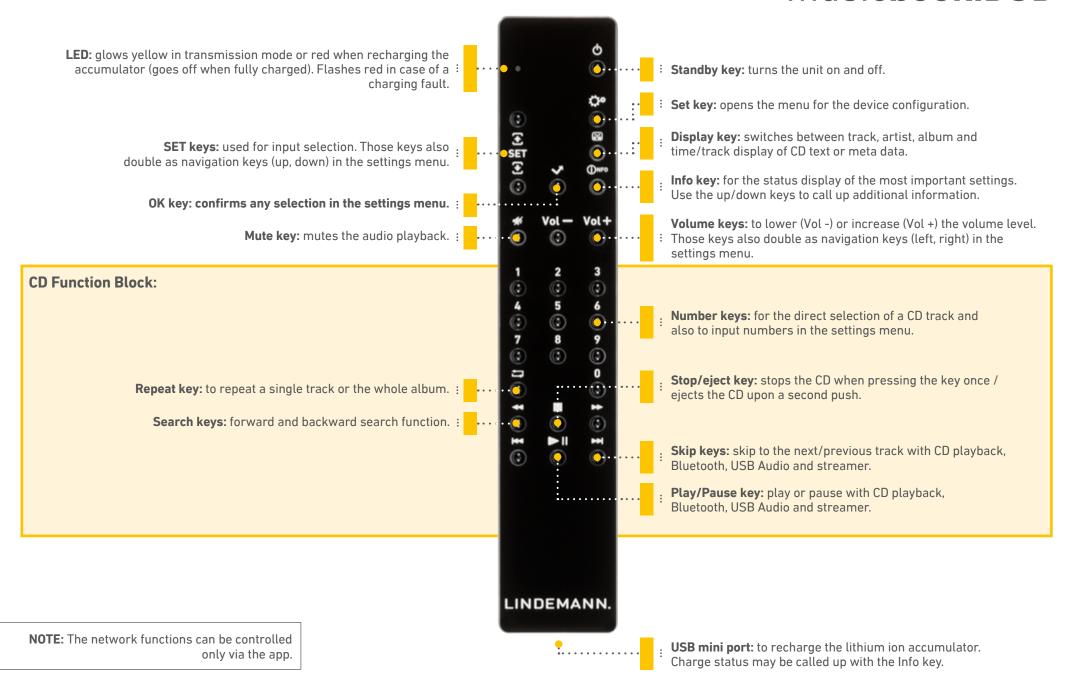


Rear View

Balanced (XLR) and unbalanced (RCA) line outputs which can be used independently and simultaneously. Load stable output stages for use with long cables, e. g. to connect active : speakers or a subwoofer. Two analog inputs for connecting e.g. a phono preamp or a tuner. Analog preamp circuitry and analog volume control for optimum : resolution and trouble-free operation even with low volume levels. WLAN antenna for the wireless connection between Non-magnetic, hard gold-plated RCA sockets for a loss-free signal your musicbook DSD and the WLAN router. Playback of transmission. music files up to 24 bit and 96 kHz in WLAN mode. Bluetooth antenna for the wireless connection **Power switch** for a full disconnection of the musicbook DSD from the mains grid. between your musicbook DSD and e. g. a smartphone : or tablet. High sound quality due to AAC and aptX. **USB-B port (USB device)** to operate the musicbook DSD on a computer. Music playback in studio quality (PCM, DSD, DXD) up to 24 bit and 384 kHz : IEC plug for connection to the mains grid. : and of DSD files up to DSD 256 in native mode. Ethernet LAN connection for using the Four digital inputs: optical and coaxial. Max. resolution up to 24 bit and network player on the router. 192 kHz coaxial or 24 bit and 96 kHz optical. Connectivity for external digital . Playback of music files up to 24 bit and sources like TV, Blu-ray player or an external CD drive. 192 kHz and DSD 64 in LAN mode. Intelligent DSD re-sampling of all digital inputs and sources.

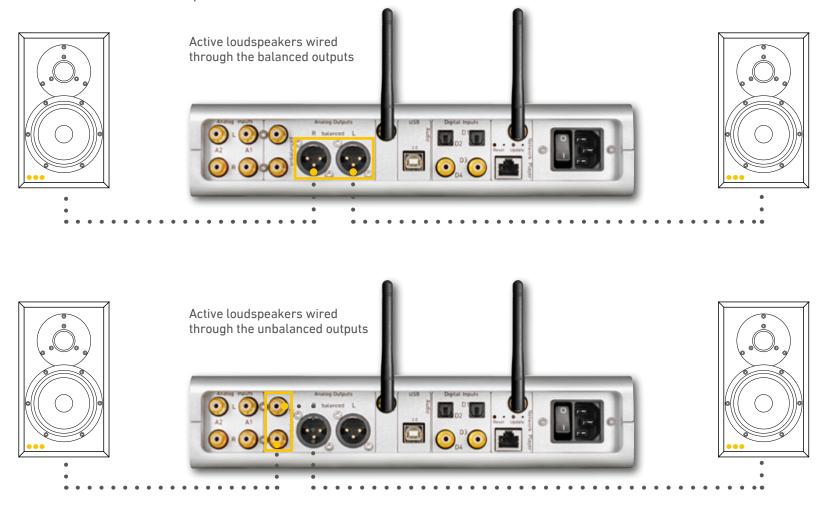
IR Remote Control

music**book**:DSD



Connection Variant I

musicbook DSD with active speakers



Connection Variant I:

Connecting active loudspeakers is the easiest way to enjoy music with the musicbook DSD. You only need signal cables of appropriate length to establish the connection between the outputs of the musicbook DSD and the inputs of the active speakers. The musicbook DSD can easily drive long cables and delivers up to 8 V of output voltage into

600 ohms in balanced operation mode. The integrated preamp, the ample connectivity for analog and digital sources and the possibility to play back CDs or listen to music from a network harddisk drive, a streaming service or web radio make the musicbook DSD an extremely versatile signal source.

Connection Variant II I

musicbook DSD with power amp musicbook 50/55 + passive speakers

musicbook:DSD



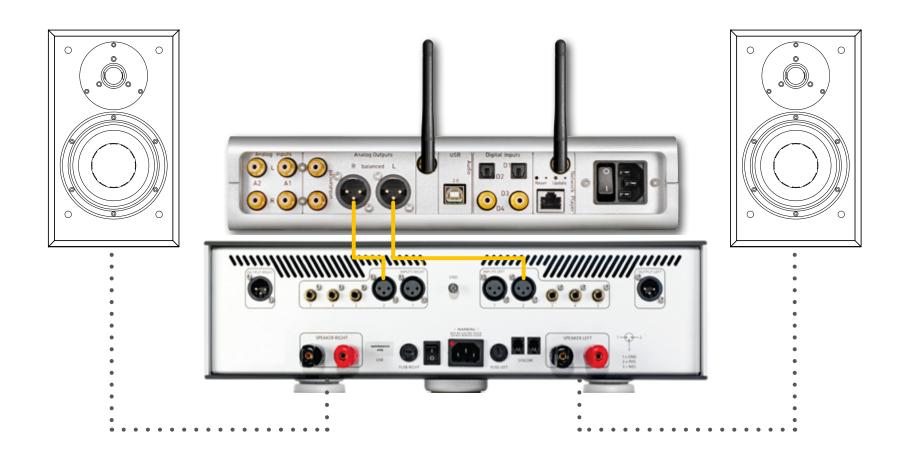
Connection Variant II:

For using passive speakers on the musicbook DSD, you need a suitable power amplifier. With the musicbook 50 or the musicbook 55 we are presenting class D power amps which meet the very highest demands on sound quality. An intelligent signal detector switches on the amplifier automatically when a music signal is present and turn it off again if the music has stopped. But the musicbook DSD can also be ideally combined

with existing power amps. Since both outputs can be used simultaneously, you may link e. g. a power amplifier and an additional subwoofer to the device.

Connection Variant III

musicbook DSD in combination with an existing hi-fi system I



Connection Variant III:

If you are already using a complete hi-fi system with a preamp or an integrated amplifier, you can connect the musicbook DSD to an analog input of the amplifier. To this end the onboard volume control of the preamp in the musicbook DSD can be bypassed (menu item ▶ Fixed Line Output ◀ in the settings menu) and will then become effective only when used with a headphone.

Selection of Digital and Analog Inputs I musicbook DSD I

musicbook: DSD

The musicbook DSD offers 4 digital and 2 analog inputs. These can be selected in three different ways:

• via the musicbook app....



• via the IR remote control.....



via the multi-function wheel



Selection via the app (mb 20/25 only)



- Start the musicbook app.
- Open the source view and select the desired
- input Digital 1–4 or Analog 1–2.
- After selecting the source, you will enter the
- play view of the app.
- The sources may be renamed in the source view of the app. See page 35.

Selection via the IR remote control





- Tip the SET up or SET down keys on the remote until the desired input is shown.
- Under **Inputs** in the settings menu you can rename the inputs and fade out inputs which are not needed.

Selection via the multi-function wheel



- Press on the centre of the multi-function wheel on the musicbook. Keep the wheel pressed while turning it clockwise or counterclockwise.
- The display will show the inputs Digital 1–4 and Analog 1–2 from which you may pick your choice.

Using the CD Player I musicbook DSD I

• With the label side face up, gently push an audio CD into the CD drive slot until the CD is automatically pulled in.



Important note: The drive pulls in the CDs and also ejects them again automatically. Don't try to push a CD into the device or pull it out against the resistance of the drive. This will damage the load mechanism. Damages to the load mechanism are not covered by warranty.

• After a few seconds the display will show the number of tracks and the overall playtime of the CD.



 For all other user functions you can either use the remote control, the app or the multi-function wheel on the unit.







Device control via app and IR remote control	
• Play/Pause.	►II
Search (only on IR remote).	44 bb
• Search/Skip (app).	
 Skip (skip to the next or previous track). 	
Repeat one (repeat a single track).	
Repeat all (repeat the whole album).	\Box
Stop/Eject (only on IR remote)	
Number keys for direct track selection.	1234545

 Icon for CD ejection: in the CD line of the app's source view.



 By pressing the display key on the remote control, you can switch the display between time/track, album, artist and track (only if CD text is available).





J	evice control via multi-function wheel (wheel control)		
Volume control (turn left/right).	Volume control (turn left (right)	Vol	_
	volume control (turn tert/right).	Vol	+
,	Play/Pause: press shortly		11

• Stop/Eject: press and hold > 1 sec.



• Skip: press and hold while turning left/right.



Note: Under ▶CD Drive ✓ in the remote settings menu, ▶Wheel Control ✓ and ▶Resume ✓ can be turned on and off. See page 17.

Bluetooth Playback | musicbook DSD |

The musicbook DSD is equipped with a top-class Bluetooth adapter. It supports the aptX and AAC transmission standards. Both deliver a sound quality which is barely different from CD reproduction.

However, the connected smartphone also must support those standards.

The music playback via Bluetooth can be controlled with the Play/Pause and Skip +/Skip - keys on the remote or the app. If meta data are available, you can select between album, artist and track with the display key on the remote.

Connecting your smartphone to the musicbook

- 1. First mount the supplied screw antenna to the corresponding connector.
- 2. Using the IR remote or app select ▶Bluetooth◀ as source.
- 3. Open the settings on your smartphone and go to Bluetooth.
- 4. Select the musicbook here.
- 5. After a few seconds the display will read ▶Connected∢.
- 6. After the connection has been established successfully, the display will show the name of the smartphone and the transmission standard.

Note: More setting options such as ▶**Pairing**◄, ▶**Autoconnect**◄ and ▶**Visible**◄ can be found in the settings menu of the remote under ▶**Bluetooth**◄. See page 17.

musicbook:DSD

USB Audio Interface | musicbook DSD |

The musicbook DSD is equipped with a USB interface which enables you to play back music from a computer in studio quality. In this operation mode the musicbook replaces the internal soundcard of the computer. The interface supports high-resultion music files up to 384 kHz PCM and DSD playback up to DSD 256 in native mode. The interface of the musicbook DSD is fully compatible with USB Audio Class 2.

A crucial prerequisite for an optimum sound experience with a computer is the use of a high-quality USB cable and a playback software that supports high-resolution formats and offers some comfort such as an automatic sample rate switching. We have had positive experiences with software programmes like Audirvana, Pure Music and J.River Media Center.

For the use of an Apple computer no special driver is required.

Windows computers, however, need to be run with a special driver for high resolutions. This driver can be found in the download area on our website together with a driver installation guide.

USB operation on the Mac (OSX 10.6.4 or higher)

- 1. Using the supplied USB cable, connect the USB input on the rear of the musicbook DSD to a free USB port on your Mac.
- 2. Now open the ▶Audio MIDI Setup◄ utility and select the musicbook from the list of the shown devices which appears as ▶LINDEMANN HighResAudio◄. In the settings menu select ▶Use this Device for Sound Output◄. Under ▶Format◄ you can now manually set the sample rate and the bit resolution. A detailed installation guide is found on our website.

We recommend the use of an audiophile playback software such as Audirvana, Pure Music or J.River Media Center. Only that way you will be able to enjoy all features like automatic sample rate switching, sample rate converter or DSD playback. For more information contact the respective supplier.

USB operation on Windows PC (Windows 7, 8, 10)

- 1. Windows computers require an ASIO driver for running high-resolution USB Audio devices. This is available on our website in the "Downloads" area. Install the driver **before** connecting the musicbook to your computer for the first time. Please follow the installation guide on our website.
- 2. After successful installation connect the USB input of the musicbook to a free USB port on your computer. Open the ▶sound◀ settings in the PC's ▶system control panel◄. Define the musicbook, which appears as ▶LINDEMANN HighResAudio◄, as standard output device and set the desired resolution and sample rate manually under ▶Properties/Advanced◄. A detailed installation guide can be found on our website.

We recommend the use of an audiophile playback software like J.River Media Center or Foobar to take full advantage of all features such as automatic sample rate setting and up-sampling. You will find the installation guides at the respective suppliers.

Settings Menu musicbook DSD |

music**book**:DSD

The settings menu of the musicbook is only navigated by the IR remote control. With it you can configurate the hardware of the musicbook according to your personal preferences. There is a multitude of setting options which will be described hereafter. Please note: this menu is not identical with the settings of the app.

- First make yourself a little familiar with the navigation in the menu:
- Pressing the ▶Settings key

 will take you into the menu, a second push will get you out again.

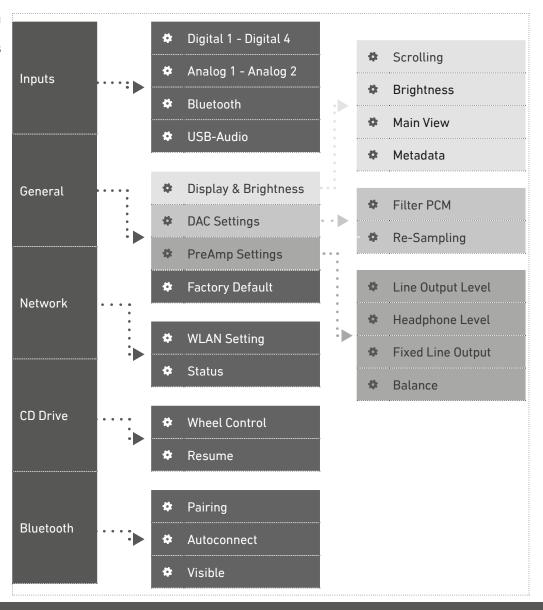


- The menu is navigated with the **▶up◄**, **▶down◄**, **▶left◄**, **▶right** ≼ keys and the **▶OK button** ≼ on the remote.
- The current selection is indicated by the softkey highlighted in yellow. Confirm your selection each time by pressing the **▶OK button◄**.









Settings Menu | musicbook DSD |

Inputs - Digital 2

- 1. Go to Inputs, select the desired input, followed by Name or Enabled.
- With ►Name < you can assign new names to the inputs. For this purpose use the up, down and left, right keys. Confirm each time with the OK button. Use the left, right arrows to create blank spaces or for corrections. Confirm the new naming in the OK softkey.
- 3. With ▶Enabled
 those inputs which are not needed can be removed from the selection. Select ▶Input enabled
 for an active input and ▶Input disabled
 for a disabled input. Confirm each time with the ▶OK button
 .

General - Display & Brightness - Scrolling

- 1. Go to General, select Display & Brightness, followed by Scrolling.
- 2. By ►Scrolling ◄ we understand the scrolling of the meta data text. You can select between ►off ◄, ►one time ◄ and ►on ◄. With off the text will never run through, with ►on ◄ the text will run through repeatedly within short intervals, and with ►one time ◄ only after the text has been altered.

General - Display & Brightness - Brightness

- 1. Go to General, select Display & Brightness, followed by Brightness.
- 2. With ▶Brightness◀ the display brightness is adjusted. Select between ▶low◀, ▶mid◀ and ▶high◀.

General - Display & Brightness - Main View

- 1. Go to General, select Display & Brightness, followed by Main View.
- 2. With ▶Main View ◄ you can change between three different display views: ▶Text ◄, ▶Text + Info ◄ and ▶Volume + Info ◄. In the Text setting only ▶Text ◄ will be shown, the ▶Text + Info ◄ setting will show you the text together with the information about the current sample rate, and in the ▶Volume + Info ◄ setting you will see a volume display together with the information about the current sample rate.

General - Display & Brightness - Metadata

- 1. Go to General, select Display & Brightness, followed by Metadata.
- With ►Metadata ✓ you can enable or disable the display of the meta data text.
 If ►Metadata ✓ has been disabled, only the respective active source is displayed.

General - DAC Settings - Filter PCM

- 1. Go to General, select DAC Settings, followed by Filter PCM.
- 2. With ▶Filter PCM

 the characteristic of the anti-aliasing filter in PCM mode can be switched between ▶Slow Roll-Off

 and ▶Sharp Roll-Off

 This setting has no influence on the DSD operation!

General - DAC Settings - Re-Sampling

- 1. Go to General, select DAC Settings, followed by Re-Sampling.
- 2. With ▶Re-Sampling

 the function of the integrated sample rate converter is determined. In the ▶native

 setting the SRC is not enabled and the digital data are processed unalteredly. In the ▶PCMx2x4x8

 setting the digital data are converted into the DXD studio format (352.8 or 384 kHz respectively). In the ▶DSDx2x4

 setting the digital data are converted into the DSD 128 or DSD 256 format.

General - PreAmp Settings - Line output Level

- 1. Go to General, select PreAmp Settings, followed by Line Output Level.
- 2. With ▶Line Output Level the output level at the outputs is set. Select between ▶low , ▶mid
 and ▶high . The maximum output voltage corresponds to 1V, 2V and 4V (unbalanced) or 2V, 4V and 8V (balanced).

General - PreAmp Settings - Headphone Level

- 1. Go to General, select PreAmp Settings, followed by Headphone Level.
- With ▶Headphone Level

 the output voltage at the headphone output is set. Select between ▶low

 , ▶mid

 and ▶high

 . The maximum output voltage corresponds to 1V. 2V and 4V.

General - PreAmp Settings - Fixed Line Output

- 1. Go to General, select PreAmp Settings, followed by Fixed Line Output.
- With ►Fixed Line Output

 you can turn on or off the volume control on the musicbook.
 The output voltage is then set to maximum (which corresponds to a set value of 99).
 Caution: only select this setting option if you are running an amplifier with a volume control after the musicbook. Otherwise your power amplifier will be overdriven and might destroy your speakers.

Settings Menu | musichook DSD |

musicbook:DSD

General - PreAmp Settings - Balance

- 1. Go to General, select PreAmp Settings, followed by Balance.
- With ▶Balance ◄ volume differences between the channels can be levelled if the listening position is not ideal. Use the left, right keys to adjust the balance. Confirm with the ▶OK button◄.

General - Factory Default

- 1. Go to General and select Factory Default.
- 2. With ▶Factory Default
 the device can be reset to delivery condition. Confirm with the OK button to start the procedure. Please note: all settings you have done so far will be reset.

Network - WLAN Setting

- 1. Go to Network and select WLAN Setting.
- 2. With ▶WLAN Setting ■ the password for the WLAN operation can be entered via the remote control. For this purpose use the up, down and left, right keys. Confirm with the ▶OK button ■ each time. Use the left, right arrows to create blank spaces or for corrections. Confirm the input in the OK softkey. See also page 20: WLAN configuration.

Network - Status

- 1. Go to Network and select Status.
- 2. With ▶Status◀ you can call up essential information about the WLAN connection. Use the ▶up◀, ▶down◀ keys to have further information displayed.

CD Drive - Wheel Control

- 1. Go to CD Drive and select Wheel Control.
- With ►Wheel Control

 the CD player control via the multi-function wheel can be enabled or disabled.

CD Drive - Resume

- 1. Go to CD Drive and select Resume.

Bluetooth - Pairing

- 1. Go to Bluetooth and select Pairing.
- 2. With ▶Pairing ◄ you can edit the stored list of devices which were recently connected successfully to the musicbook. In Autoconnect mode the musicbook will connect automatically as soon as it finds a device that was already connected to the musicbook. With ▶Unpair ◄ this list will be deleted. With ▶Pair ◄ the musicbook is manually set to standby mode and ready to connect to other Bluetooth equipment.

Bluetooth - Autoconnect

- 1. Go to Bluetooth and select Autoconnect.
- 2. With ▶Autoconnect
 the musicbook will automatically connect to the last connected device. All devices that were previously connected to the musicbook are stored in an internal list. If a device is not available, the musicbook will try to connect to the next device in the list. With ▶Unpair
 this list will be deleted.

Bluetooth - Visible

- 1. Go to Bluetooth and select Visible.
- 2. With ▶Visible ◄ you can determine if the musicbook shall be visible for other Bluetooth devices. In the ▶No ◄ mode the musicbook is not shown to other Bluetooth devices. In the ▶Yes ◄ mode it is visible as standard. This function can be useful, if you want to prevent external devices from getting access to the musicbook.

musicbook DSD I





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Network Connection | musicbook 20/25 DSD |

musicbook:DSD



Netwok Connection:

The musicbook 20/25 DSD is equipped with a UPnP/DLNA network player. This allows to play back music from various digital media like e. g. streaming services, web radio, network attached storage (NAS) as well as USB storage media. For network operation you will need a WLAN router with internet access, a smartphone or tablet (WLAN operation) with the musicbook app and a storage medium like an NAS (Network Attached

Storage). The versatile functions of the musicbook 20/25 DSD can be conveniently operated via the app. The core element within the network is the WLAN router. It receives the commands from the app and passes them on to the musicbook.

Network Configuration | musichook 20/25 DSD |

One condition for the use of the network player is a functional home network which comprises at least a WLAN router with internet access and a smartphone logged in on this router for running the app. Please download the musicbook app from the App Store (Apple) or from Google Play (Android). If you have already a music collection on an NAS, connect this one to the WLAN router as well. To ensure a troublefree operation of the musicbook 20/25 DSD in a local network, please follow the instructions in this chapter step by step. However, in case of problems it is advisable to consult a network expert.

NOTE: Even if you have planned a wireless only operation via WLAN, it does make sense for the initial start-up to connect the musicbook 20/25 DSD to your router via a LAN cable. You should acquaint yourself a little with the operation of the network player and the app before switching to WLAN mode. For entering the WLAN access data via the app a LAN connection is absolutely necessary. The LAN cable will only be removed after entering the WLAN data.

Operation with a LAN cable:

- 1. If you had switched on the musicbook, you need to turn it off now and connect the device to a free LAN port on your WLAN router by means of the supplied LAN cable.
- 2. Now turn the device on again. The device will log in to the network. This may take some time (up to 5 minutes).
- 3. The network status can be requested with the ►INFO button on the remote control.

Network: LAN
IP Mode: DHCP
IP: 192.168.1.XXX

- 4. Now open the musicbook app on your smartphone or tablet.
- 5. The app will now show the musicbook and its IP address (Discover Devices).
- 6. Tip on the musicbook to link it with the app.
- 7. The musicbook is now ready for network operation.

Wireless operation via WLAN:

For the configuration of the WLAN connection it is necessary to perform the above steps first. **During the input of the WLAN data the musicbook remains connected to the WLAN router via the LAN cable.** Before starting the procedure, please mount the WLAN antenna.

WLAN configuration with the musicbook app

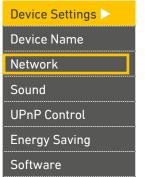
1. Select the Settings icon in the app.



2. Select **▶Device Settings** ◄.

Discover Devices
Application Settings
Device Settings
About

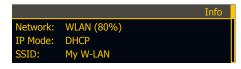
3. Select ▶Network◀.



Network Configuration | musichook 20/25 DSD |

musicbook:DSD

- 4. Select **▶Configure WiFi** <.
- 5. Select ▶SSID∢.
- 6. Select your home network from the list of discovered networks.
- If under Security unknown is shown, the WLAN encryption was not recognised automatically (e. g. with iOS devices). Select the WLAN encryption of your WLAN router (e. g. WPA2). We recommend the following settings: Cipher = AES/TKIP and Security = WPA2
- 8. Choose your ▶ Password and enter the password for your WLAN access.
- 9. Confirm with ▶Apply◀.
- 10. Also confirm the IP setting (DHCP) with ▶Apply◀.
- 11. Disconnect the LAN cable **immediately** from the musicbook.
- 12. The musicbook will now establish a WLAN connection.
- The change to WLAN requires 20-30 seconds, but may also take several minutes, depending on the router.
- 14. Check the WLAN connection by pressing the INFO button on the remote control.
- 15. If LAN is still displayed, please switch off the musicbook on the rear side. Make sure that no LAN cable is connected and reboot the device.



WLAN configuration with the remote control

The WLAN connection can also be configured by means of the remote control. In this case it is not necessary to make a connection via LAN cable. This may often simplify the procedure. Before starting the procedure, please mount the WLAN antenna.

- Open the Settings menu, navigate to ►Network, with the up/down keys and tip on ►WLAN Setting. Select your WLAN network (SSID).
- 2. Now enter the password for your WLAN router with the left/right/up/down keys. With the < > icons the input can be navigated, e. g. to correct a wrong character. Upon entering the password confirm with OK. A good bet: numbers can be entered directly via the number keys on the remote control.
- SSID and password will be displayed again for a check. Confirm ►Apply with the ►OK button
- 4. The musicbook will now establish a WLAN connection. This requires 20-30 seconds, but may also take several minutes, depending on the router. Upon correct password input the display will read as follows:

Connected!

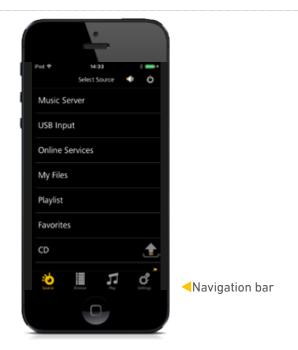
Upon false input the display will read as follows:

Connection refused!

The musicbook App Overview

The musicbook app is available for devices with either Android or iOS operating system. You can download the Android app from Google Play and the iOS-App in the App Store. Enter "musicbook" into the search mask of the respective store and select the app **musicbook** from **Lindemann audiotechnik**. For the installation follow the further instructions provided

by the online store and your smartphone or tablet. The apps show minor deviations in their visual presentation. The differences are shown in the graphics below. Moreover, deviations will occur as a function of the size and resolution of your display and also depending on the version of your operating system.



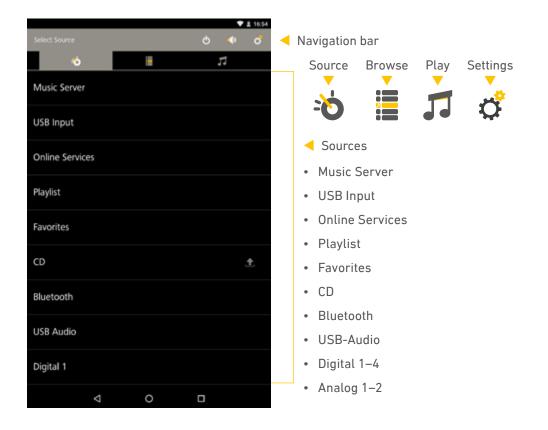


iOS Android

NOTE: To avoid graphical and system-related problems with the app, we strongly recommend you to **always load the latest version of the operating system** for your smartphone or tablet. The musicbook app is executable under the iOS operating system from version 9

and under the Android operating system from version 4. In this manual the layout of the Android version is used to explain the app. However, all descriptions apply equally to iOS devices.

The musicbook App Navigation bar



music**book**:DSD

Source view



Tipping on the source icon will get you straight to the view pictured left. Select the desired source here. From the source view you will be directed to the browse view (depending on the source) or straight to the play view.

Browse view



The browse view presents the folder structure of the source in which you are navigating. The folder structure is shown completely with all its levels and is specified by the source. The app has no influence on the pictured content. The navigation within the browse view is done by selecting the corresponding folders and also via the back function in the upper lefthand corner.

Play view



When playing back music, the current track plus the cover or (with web radio) the logo of the radio channel will be shown. Tipping on the cover will call up a list of the available additional information: track, artist, album, genre, bit rate, format, sample rate, server. In the play view for the digital and analog inputs (Digital 1–4, Analog 1–2) the input name is displayed. With the digital sources also the current sample rate is shown.

At any time you may switch between source view, browse view and play view; meanwhile the track in play will continue to play.

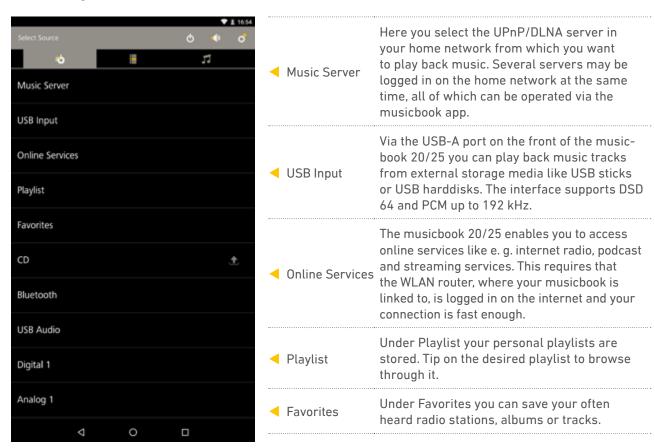
Settings



Under Settings you will find a settings menu where you can configure the streamer.

The musicbook App Source view |

The following sources are available in the source view:



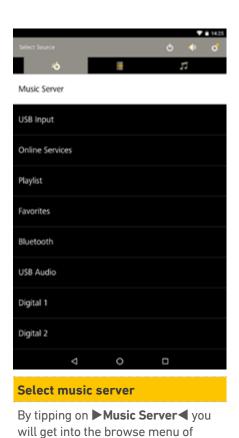
⋖ CD	The CD player can be fully operated via the app. In the right-hand column you will find the icon to eject the CD.
⋖ Bluetooth	The musicbook 20/25 is equipped with a high-quality Bluetooth receiver which supports the good-sounding AAC and aptX formats.
◀ USB-Audio	Via the USB-B port on the rear of the music-book you can establish a connection with a computer and play back directly from there. The interface works in asynchronous mode and supports DSD 256, DXD and PCM up to 384 kHz.
◀ Digital 1–4	Here you can select and name external digital sources connected to the musicbook.
◀ Analog 1–2	Here you can select and name external analog sources connected to the musicbook.

The musicbook App Source view | Music server |

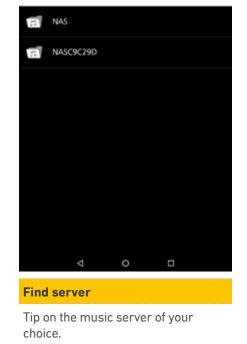
music**book**:DSD

Under ▶Music Server ✓ you will find all available music servers on the network. After selecting the server and the presentation, you will be directed to the browse view. Here you select e. g. an album and a track. The app will jump straight to the play view and play the

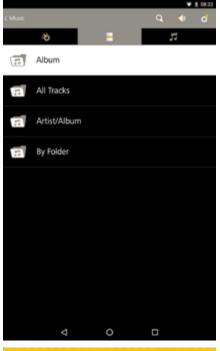
track. **Note:** Always use the latest version of the music server software, e. g. Twonky from 8.2. Configure this software according to your personal preferences.



your NAS.



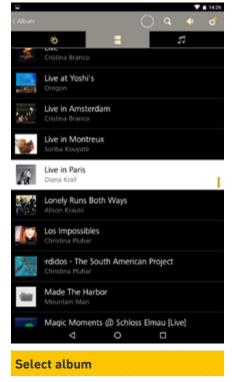
MyUPnP_Server



Select order

Here you can define how your music collection is sorted. The preselection, which you will be shown, depends on the settings of your music server (e. g. Twonky).

The musicbook App Source view | Music server |



Select the desired album.



Select the desired track.



Play view

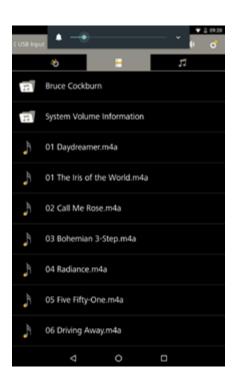
The music is now played back. With Backward/Forward and Play/Pause you can navigate in the album. With Vol+/Vol-/Mute you can set the volume level.

The musicbook App Source view USB Input

music**book**:DSD

The USB input (host) on the front of the device is designed to play back USB storage media like USB sticks or USB harddisks. These need to formatted in the FAT 32 format. Select ▶USB Input ✓. in the source menu. The browse view with the content of the storage

medium will open. Pick the desired folder/album/track. The app will open the play view. Please note: no covers will be transmitted via the USB input.





Operation in play view

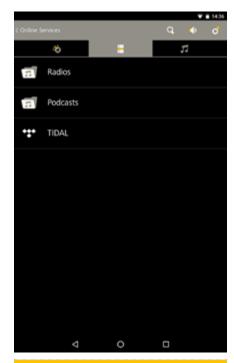
- With Forward , Backward you can either skip to the next or previous track or search within the track. Tip briefly on the corresponding softkey to skip to the next or previous track. For searching tip and hold the softkey a little longer.
- With Play/Pause | > you can start or stop the playback.
- With the **Repeat-Icon** the repeat function is called up. You can choose between two options: Repeat One und Repeat All.
- Upon tipping on the placeholder in the middle of the play view, the meta data will be shown.
- Mute (1) and Vol+/Vol- serve to adjust the volume level or mute the playback respectively.

The musicbook App

Source view | Online services |

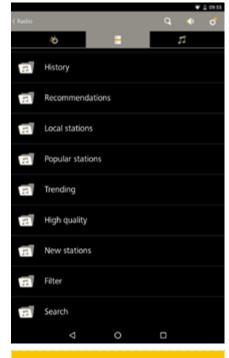
Under ▶Online services ■ various service providers are available who offer catalogues with radio stations, podcasts or music. Music streaming services are fee-based and require a

registration with the respective provider. For an optimum sound quality we recommend a subscription with FLAC 44 resolution, i. e. in CD quality.



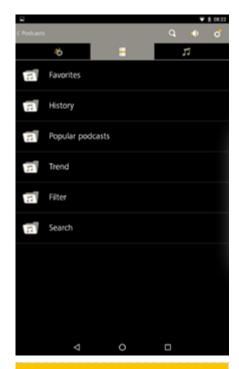
Online services

Tipping on ▶Online services will open the overview of the available services. Pick the desired offer here.



Browse view Radios

Frequently visited radio stations can be stored at the radio service under ▶ Favorites ◄ or in the source menu under ▶ Favorites ◄.
See Favorites.



Browse view Podcasts

Frequently listened podcasts can be stored at the podcast service under **Favorites** or in the source menu under **Favorites**.

See Favorites.



Browse view TIDAL

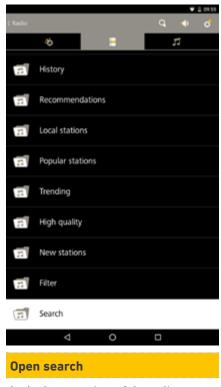
Streaming services like TIDAL are subject to charge. First you need to open an account with the respective provider. In order to use the service, you then need to enter your user name and your password and confirm with LOGIN.

The musicbook App

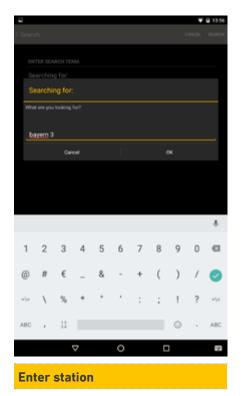
Source view | Online services Search function |

musicbook:DSD

Under ▶Online services ◄ you will find the search funtion in the corresponding browse view of the streaming service, radio or podcast. Note: the specific search within a service is only possible there and must be distinguished from the general search ♀ via the app.



In the browse view of the online services tip on ▶Radios◀ and here again on ▶Search◀. The search dialogue will open.

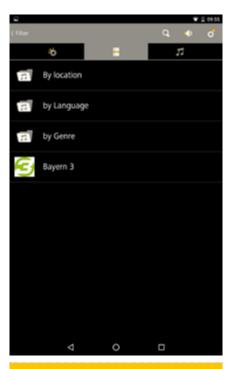


Enter the name of the station with the keyboard. Confirm with OK (or Done with iOS).



Start search

Tip on ▶Search in the right upper corner to start the search.

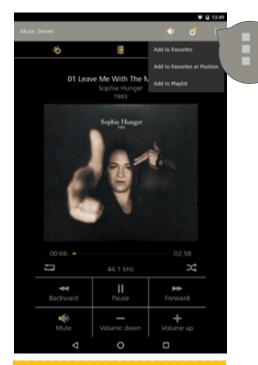


Search result

Tip on the search result to play back the radio station.

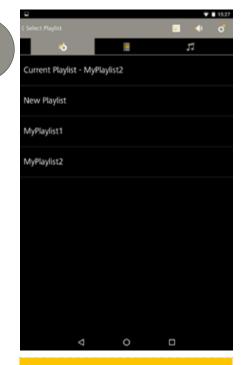
The musicbook App Source view | Playlist |

loaded playlist is indicated top left in the navigation bar as ▶Current Playlist ◄. Playlists can be edited, i. e. stored, deleted and changed in their order.



Add track

Tip on the ►Add to ◄ icon in the play view. Now tip on ►Add to Playlist ◄.



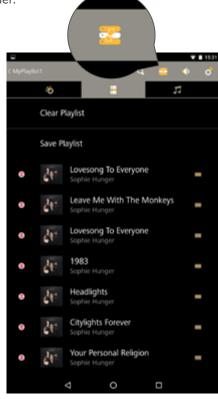
Select playlist

Tip on the playlist to which you want to add the track. With
▶New Playlist ✓ you can also name a new playlist.
▶Current Playlist ✓ is the currently loaded playlist.



Select track

Tip on ▶Playlist ◄, in the source view to browse through its content. After selecting a track you will be directed straight to the play view.



Edit Playlist

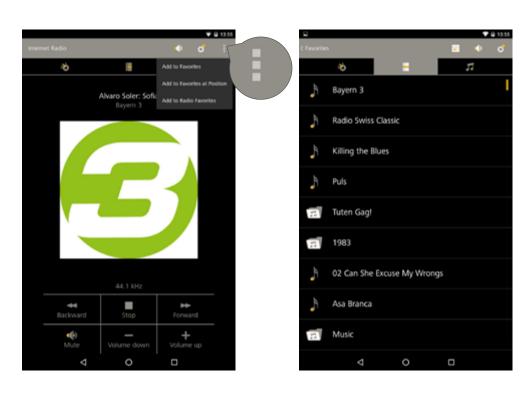
To edit a playlist tip on the Edit icon in the browse view. With the Re-order icon on the right you can change the track order. With the Delete icon on the left single tracks are deleted. After editing confirm with ▶Save Playlist ◄.

The musicbook App | Source view | Favorites |

musicbook:DSD

Under Favorites you can store frequently listened radio stations, albums or tracks. Tip on ▶ Favorites ◀ in the source view. The app will now list your favorites in the browse view.

Upon selection (e. e. a radio station) the app will switch to the play view and the selected favorite is played back. The favorites can be used like the station keys on a tuner.



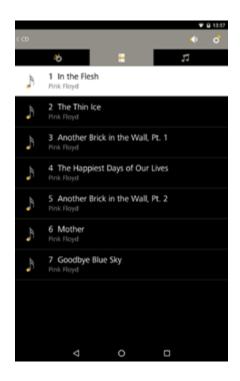
Add favorites

- Android: In the play view mode tip on the ▶Add to ◄ icon in the upper right-hand corner to add a radio station or track to your favorites.
 Confirm with ▶Add to Favorites ◄.
- iOS: In the play view mode tip on the ►Add to < icon in the upper right-hand corner to add a radio station or track to your favorites.
 Confirm with ►Add to Favorites <.

Now you can call up the respective radio station or track directly under ▶Favorites◀ in the source menu.

The musicbook App Source view CD

Select ▶CD◀ in the source view. The app will now list all tracks on that CD in the browse view. After selecting a track, the app will switch to the play view and play the selected music track.





CD player operation with the app

- With Forward , Backward you can either skip to next or previous track or search within the track. Tip briefly on the corresponding softkey to skip to the next or previous track. For searching tip and hold the softkey a little longer.
- With **Play/Pause** you can start or stop the playback. Holding it longer has the same function as the Stop key on the remote control.
- With the **Repeat-Icon** the repeat function is called up. You can choose between two options: **Repeat One** and **Repeat All**.

To eject a CD tip on in the source view.

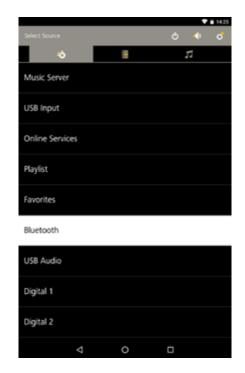
NOTE: With CDs containing text information these will be shown both in the browse and play view. If there are no CD text information available, the tracks will only be listed by numbers.

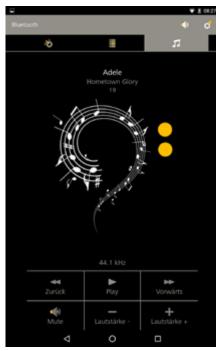
The musicbook App Source view | Bluetooth |

music**book**:DSD

The Bluetooth receiver of the musicbook DSD allows to play back music which is stored on smartphones and tablets. Tip on ▶Bluetooth ◀ in the source view. Connect your smartphone to the musicbook. For this purpose use the Bluetooth settings of your smartphone. The app

will jump straight to the play view and show the meta data of the selected track. Browsing and cover image are only possible on the connected smartphone.





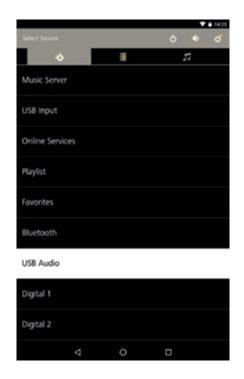
The app as remote control for the Bluetooth receiver

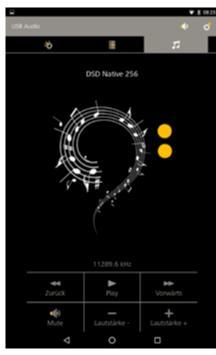
- With **Forward** , **Backward** you can skip to next or previous track. Tip briefly on the corresponding softkey to execute the order.
- With **Play/Pause ||** ▶ you can start or stop the playback.
- Upon tipping on the placeholder in the middle of the play view, the meta data will be shown.
- Mute (1) and Vol+/Vol- serve to adjust the volume level or mute the playback respectively.

The musicbook App Source view USB audio

The USB audio input on the back of the device is used to play back music via a computer. Tip on ▶USB-Audio◀ in the source view. The app will jump straight to the play view and show the

data format (PCM or DSD) and the sample rate. Browsing and cover image are only possible on the connected computer.





The app as remote control for the computer

- With **Forward** , **Backward** you can skip to next or previous track. Tip briefly on the corresponding softkey to execute the order.
- With **Play/Pause |** ▶ you can start or stop the playback.
- Upon tipping on the placeholder in the middle of the play view, the meta data will be shown.
- Mute (1) and Vol+/Vol- serve to adjust the volume level or mute the playback respectively.

The musicbook App Source view Digital 1-4 Analog 1-2

musicbook:DSD

Four digital inputs

The four digital inputs (2 x optical, 2 x coaxial) offer connections for digital sources like TV, DAB tuner, Blu-ray or an external CD drive.

Two analog inputs

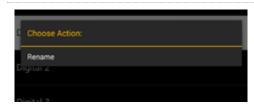
The two analog inputs offer connections for analog sources such as a tuner or phono preamp.

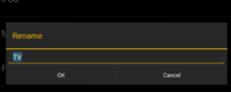
Renaming

The input identifiers for the external digital and analog sources are specified ex works as Digital 1–4 and Analog 1–2. These can be changed individually.

Renaming of the digital and analog inputs with Android devices:

Press and hold the respective input line for about 1 sec. A window will open where you can rename the digital source, e. g. TV or Tuner. Confirm with **OK**.



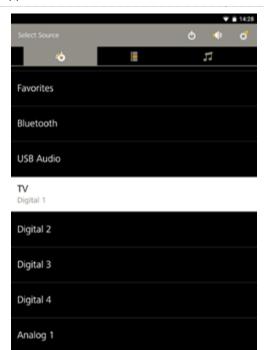


Renaming of the digital and analog inputs with iOS devices:

In addition to the digital/analog inputs, the ▶Rename icon ◀ ∮ will be shown on the right side of the source view. After tipping on this icon a window will open where you can rename the source, e. g. TV or Tuner. Confirm with ▶Done ◀ top left the menu bar) or with ▶Return ◀.



The input will now appear in the source view with its new name.



The musicbook App Settings I

First open the app settings with the Icon. The following options will appear:

| Discover Devices | Application Settings | Device Settings

Discover Devices

Discover Devices shows all the musicbooks which are available on the network. Connect the app with the musicbook by tipping on the softkey.



Application Settings

Autoconnect

This function enables to automatically connect with the musicbook. If this function has been disabled, the musicbook will be listed under the menu item Discover Devices, and you will need to select the device manually with each app start.

Show Album Art

If available, the app will show covers. To access the music files faster, this function can be adapted or turned off:

- Always: The cover is always shown.
- Directories and Web Radio: The cover is not shown in the browse lists. It only appears in the play view.
- Never: No covers will be shown.

Play MyFiles

After enabling this function, music files which are stored on the smartphone or tablet can be played back.

Cache

The app collects data in the cache for a speedy navigation. This applies in particular to covers. If they were loaded once, the page layout will be much faster in the future. When changing the UPnP server or in case of problems with the image buildup it is advisable to clear the cache.

- With Android devices: press **Clear Cache**.
- With iOS devices: press ▶ Purge ◀.

Device Settings

Device Name

The network name may be altered. Under the Discover Devices menu item your musicbook will the appear with the newly assigned name.

Network

Here you can look at the current network information.

■ Configure LAN/WLAN (see Network Configuration, p. 20).

Sound

■ Balance

The Balance function helps straighten out level differences at the listening spot, if this is not located in the optimum listening position. To this end you can set different volume levels for the left and right loudspeaker. The Balance control range is ± 6 dB.

■ App Volume Limitation

This function is used to limit the maximum volume level which can be controlled via the app. Drag the volume scale (0 to 99) to the desired value. The App Volume Limitation can be disabled.

The musicbook App Settings I

musicbook:DSD

UPnP Control

The musicbook 20/25 is a UPnP-compliant network player and therefore controllable through any UPnP control point software. The UPnP control support can be disabled.

Energy Saving

The energy saving-function reduces the standby power consumption to 0.5 W. In the energy saving mode the musicbook 20/25 cannot be switched on or off with the app.

Software

This menu item allows to view information regarding the software version. After tipping on ▶Check for Update ■ the app will search for software updates on a USB stick or on the internet.

■ USB

If you have stored an update on a USB stick, please proceed as follows:

- 1. Plug the USB stick into the USB-A port on the front side of the musicbook.
- 2. Select ▶ Check for Update ◄.
- 3. Select ►USB◀.
- 4. Select ▶Start Update ◀.

The procedure may take several minutes.

NOTE: Please do not switch off the musicbook under any circumstances during this update process.

■ Internet

Occasionally we will provide firmware updates for the musicbook 20/25 via internet. By tipping on ▶ Check for Update ◄ followed by ▶ Internet ◄ the app will search for updates. If an update has been found, this will be indicated and you can press ▶ Start Update ◄. Please follow the further instructions provided by app. This procedure may take several minutes.

NOTE: This function requires a stable internet connection.

The display of the musicbook 20/25 will read:

Firmware Update DO NOT TURN OFF DEVICE

Progress: 4%

NOTE: Please do not switch off the musicbook 20/25 under any circumstances during this update process.

About

Here you can find information about the app version.

Technical Specifications musicbook DSD Overview

All-metal housing ($\frac{1}{4}$ " / 6.5 mm wall thickness) with high-quality multi-function wheel. Optically bonded, monochrome OLED display with nearly 180° viewing angle. High-quality,

gold-plated audio connectors. 6-fold multi-layer pc board. Ultra high-grade SMD components like e. q. closely tolerated metal film resistors and foil capacitors.

Preamplifier

Analog preamp circuit with super precise analog volume level control. Separate output stages for the balanced and unbalanced outputs. Both outputs can therefore be used at the same time.

Headphone amplifier

Analog class A amplifier circuit with high-current output stages for excellent sound quality. Headphone volume adjustable independently of the outputs. Recommended headphone impedance range: 32–300 ohms. Headphone volume controllable via remote.

Digital-analog converter

Intelligent re-sampling of all digital sopurces in DSD 128 or DSD 256. Fully balanced D/A converter that works in dual-differential mono mode and is used purely as a filter (100 kHz). Highly stable DPLL masterclock for perfect jitter performance. Optionally the converter may also be run in native mode or with re-sampling in PCM 384 kHz (DXD).

CD drive

Premium slot-in CD drive (Teac). Plays CDs and CD-Rs. CD text-capable. CD player is controllable via IR remote and app.

Network player

UPnP/DLNA compatible audio renderer with Control Point apps for iOS and Android. Supports HD formats, meta data and gapless playback. Network connection via LAN and WLAN.

USB audio interface

PCM (DXD) and also DSD 128 in DoP mode or DSD 256 in native mode. For these resolutions the computer requires a special playback software like e. g. J.River Media Center, Audirvana or Pure Music.

Bluetooth adapter

The musicbook DSD has a top-of-the-range Bluetooth adapter. Due to the aptX and AAC transmission standards a sound quality can be achieved which comes close to CD resolution.

IR remote control

High-class metal remote control with acrylic glass cover. Integrated Li-ion accumulator which can be recharged on the device. Controls all functions except for the network player.

ject to technical modifications; Measurement data are typical values!

Technical Specifications musicbook DSD

Detailed technical specifications (measuring conditions: 230 V, 50 Hz, 20°C)

- Supply voltage range: 100V 240 V, 50 60 Hz.
- **Dimensions:** 280 x 220 x 65 mm (W x D x H).
- Weight: 3.50 kg
- Power consumption: 0.5 W Stand-by, 4 W Network Stand-by, 30 W maximum.

Network player

- **Ethernet:** 10/100 Mbit/s.
- WLAN: 802.11b, g, n. 2.4 GHz band. WEP, WPA, WPA2 security support. External screw antenna.
- DHCP and static IP support.
- **USB 2.0 host interface:** Full-speed and high-speed mode. Charging of smart-phones and tablets up to 2.1A. Support for mass storage devices with FAT16/32 file systems, such as USB sticks, USB hard drives, smartphones, and tablets. (nur Android).
- Internet radio: Tune-In (airable).
- Streaming-Dienste: TIDAL
- Gapless playback with WAV, AIFF, FLAC, ALAC, MP3 and DSD
- Metadata support
- Supported formats: MP3 up to 320 kbit/s VBR/CBR | WAV and AIFF up to 192 kHz / 24 bit | FLAC up to 192 kHz / 24 bit | ALAC up to 96 kHz / 24 bit | AAC | Ogg Vorbis | WMA (Standard only, no Pro and Lossless) | DSD 64

Bluetooth-Interface

- Supported formats: SBC, AAC, aptX
- Metadata support
- Bluetooth profile: AVRCP, A2DP

USB-Interface

- **Resolution PCM:** 44.1 kHz 384 kHz, 24 bit
- Resolution DSD: DSD 64-DSD 128 (DoP-mode), DSD 64-DSD 256 (Native DSD-mode)
- **USB 2.0 Device Interface:** USB-Audio Class 2 compatible (High-Speed Mode), asynchronous mode.
- Master-Clock: Ultra-Low-Jitter, Dual-Frequency DPLL-Clock

musicbook:DSD

CD drive

- Slot-in drive (TEAC) with premium mechanism
- Superb reading properties and CD text support
- Excellent jitter performance

Digital/Analog Converter

- Inputs: two optical (up to 96 kHz) and two coaxial digital inputs (75 ohms, up to 192 kHz) for SPDIF signals (LPCM)
- THD & Noise: < 0.001% (@ 0dBFS)
- Dynamic range: > 130 dB
- D/A converter resolution: 352.8/384 kHz, 32 bit or DSD 256
- Converter architecture: two AK 4490 DACs in dual-differential mono mode, AK 4137 re-sampler
- Master clock: ultra-low jitter dual-frequency DPLL-Clock
- Jitter reduction of re-sampling process: > 60 dB
- Output voltage: 4 V @ OdBFS unbalanced, 8 V @ balanced

Analog Pre-Amplifier

- Inputs: analog line level inputs (RCA) with 20 kOhms input impedance. Maximum input voltage: 8 V unbalanced
- Outputs: one balanced (XLR) and one unbalanced (RCA) line level outputs.
 Outputs are independent. Maximum output level: 8 V unbalanced,16 V balanced.
- Headphone connection: $\frac{1}{4}$ " (6.35 mm) jack socket for headphones with 32-600 ohms impedance
- Volume level control range: 0 to 99 with the following characteristic: 0 to 20 in 2 dB steps / 21 to 60 in 1 dB steps / 61 to 99 in 0.5 dB steps
- Balance control range: +/- 6 dB in 1 dB steps
- **Gain**: 0 dB
- Fixed line output (FLO): equals volume set to maximum (99), output voltage: 4 V @ 0dBFS unbalanced. 8 V @ 0 dBFS balanced.
- Frequency response: 0 200 kHz (-3 dB)
- THD & noise: <0.001% @ 4 V Ausgang

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