

musicbook:20/25 Listen. Relax. Enjoy.

User manual

www.lindemann-audio.com

Welcome

Congratulations on your purchase of this device and thank you for choosing a LINDEMANN product. We hope you enjoy listening to music during long evenings with your favorite recordings. With the musicbook series, you have chosen one of the most technologically advanced and best-sounding audio systems. We develop and manufacture our equipment in Germany and have put all our passion and over 20 years of experience into this extraordinary product that leaves no wishes unfulfilled in terms of sound quality. Discover a new quality of music reproduction that easily fills large rooms and puts singers within reach in your living room. Enjoy listening!

Your LINDEMANN team

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iPod is a trademark of Apple Inc. registered in the U.S. and other countries. This product complies with the directives 2006/95/EC (Low Voltage Directive), 2004/108/EC (EMC Directive), and 2009/125/EC (ErP Directive).

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Important safety information

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 stoves.
- 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.

- music**book:**20/25
- 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









*musicbook:25 only

musicbook:20/25

: musicbook:20/25 network music player. The musicbook:20/25 is a streamer (also called a UPnP audio renderer) with integrated preamplifier and CD player*.

WLAN antenna

: WLAN antenna for attaching to the back of the musicbook:20/25 (only required on the router with wireless operation).

Infrared remote control

IR remote control with integrated lithium-ion battery, rechargeable.

: LAN cable CAT 6 patch cable (5m) for connecting the musicbook:20/25 to the WLAN router.

: USB charging cable USB charging cable (1m) for charging the IR remote control.

Power cord

Power cord with two-pin grounded plug (2m) for connecting to the power socket.







music**book**:20/25 Φ LED: Illuminated in yellow in transmission mode, illuminated in red Stand-by button for switching the device on and off. when the battery is charging (goes out when the full charge is reached), : The Stand-by function (Energy Saving or Network Stand-by) flashing red if there is a charging error. can be set in the Settings menu of the app. O Settings button for opening the setup menu (Balance, Display Brightness, Digiout, Fixed Line Out, Factory Default). (+) H (+) **SET buttons** for selecting digital and analog sources. These Display button for switching between display of the track, buttons are also the navigation buttons in the Settings menu. artist, or time. 0 Info button for the status display of the most important settings. 0 **OK button** to confirm the selection in the Settings menu. Vol -* Vol+ Volume buttons for decreasing (Vol -) and increasing (Vol +) the Mute button for muting the sound. : 0 0 ; volume. 1 3 4 3 7 3 1 • F • E 3 2 3 5 3 8 3 **CD function block:** musicbook:25 only 6 ۲ Numeric buttons for direct selection of a CD track. 9 (3) 0 Stop/Eject button for stopping the CD by Repeat button for repeating an individual track (one) or the entire pressing the button once and for ejecting the CD by album (all). pressing the button again. Search buttons for the forward and backward search function. : 0 Skip buttons for skipping to the next/previous track. Play/Pause button for playing and pausing the CD. LINDEMANN NOTE: The network functions can be operated via USB mini jack for charging the lithium-ion battery. the app. : The charging state can be called up with the Info button.

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IR remote control

Connection variant I

musicbook:20/25 with powered loudspeakers



Connection variant I:

The easiest way to enjoy music with the musicbook:20/25 is to connect powered loudspeakers. You only need a signal cable long enough to establish the connection between the outputs of the musicbook:20/25 and the inputs of the powered loudspeakers. The musicbook:20/25 can easily handle long cables and delivers up to 5V of output voltage at 600 ohms in balanced operation. Thanks to the built-in

preamplifier, multiple connection options for analog and digital sources, and the ability to play CDs* or listen to music from a network server or web radio, the music-book:20/25 becomes the center of your hi-fi system.

music**book**:20/25

Connection variant III musicbook:20/25 with power amplifier musicbook:50 + passive loudspeakers

Connection variant II:

To operate a passive loudspeaker on musicbook:20/25, you will need a suitable power amplifier. With the musicbook:50, we offer a balanced Class-D power amplifier, which meets the highest requirements for sound. In conjunction with high-quality two-way loudspeakers or small to medium standing speakers, this amplifier delivers the finest in sound with ultra-low power consumption. An intelligent signal detector automatically

turns on the amplifier when a music signal is received and off again when no music is being played. But the musicbook:20/25 can also be perfectly combined with existing power amplifiers. Since both outputs can be operated simultaneously, a power amplifier and a subwoofer can be connected to the device, for example.

Connection variant III

musicbook:20/25 in combination with an existing hi-fi system

Connection variant III:

If you already have a complete hi-fi system with preamplifier or integrated amplifier, you can connect the musicbook:20/25 to an analog input of the amplifier. To do this, the volume control of the preamplifier can be bypassed in the musicbook:20/25 (menu item ▶Fixed Line Output◀ in the Settings menu of the IR remote control) so that it will

only work in headphones mode. Thanks to the multiple connection options for analog and digital sources and the ability to play CDs* or listen to music from a network server or web radio, the musicbook:20/25 becomes the central source of your hi-fi system.

music**book:**20/25 Network connection musicbook:20/25 WLAN (h) (h) (h) (h) (() router Music server (NAS) Control point smartphone or tablet

Network connection:

The musicbook: 20/25 includes a UPnP network player. This allows you to play music from a variety of digital storage media, such as web radio, network storage, and USB sticks / hard drives. For operation in the network, you need a WLAN router, a smartphone or tablet (control point) with the free musicbook: app, and a storage medium

such as a NAS (Network Attached Storage). The versatile functions of the musicbook: 20/25 are easy to use in the app. $\ \ \, ,$

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Network configuration | musicbook:20/25 |

In the following sections, we assume that a working home network with a WLAN router and an Internet connection exists.

In order to ensure smooth operation of the musicbook:20/25 in a local network, please follow the instructions in this chapter step by step. If you nevertheless experience difficulties, please contact a network specialist or your Internet provider.

NOTE: Even if you are only planning to use wireless operation via WLAN, it is nevertheless necessary during initial startup to connect the musicbook:20/25 to the router using a LAN cable. This is the only way that the WLAN access data can be entered. Once this is done, the LAN connection can be disconnected and you can switch to WLAN operation.

Connecting to the network

- 1. Connect the musicbook: 20/25 to a free LAN port on your WLAN router using the supplied LAN cable.
- 2. Now switch on the musicbook: 20/25.
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*musicbook:25 only

 If the status Con: Yes (Connected: Yes) appears, the musicbook: 20/25 is connected to the network.

- Now start the musicbook: app on your control point (smartphone or tablet).
- The app shows you all available musicbook: devices with the respective IP addresses and device names.
- 7. Touch the desired musicbook:.

5.

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Network configuration | musicbook:20/25 |

music**book**:20/25

Wireless connection via WLAN

To configure the WLAN connection, it is necessary that the above steps first be performed. When you begin the process, the musicbook:20/25 must still be connected to the router via the LAN cable.

4. Select ► Configure WiFi ◄.

5. Select ►SSID◄.

- 6. Choose your home network among the networks found.
- If unknown is displayed under Security, the wireless encryption was not automatically detected. Select the WLAN encryption you set on the WLAN router (for example, WPA2).

1. Select the Settings icon in the app.

		8. Select ▶Password and enter the password for your WLAN access.
	Settings >	9. Confirm with ►Apply◀.
2. Select ▶Device Settings ◄.	Application Settings	10. Also confirm the IP setting (DHCP) with ►Apply◀.
	Device Settings	11. The musicbook:20/25 now establishes a WLAN connection.
	About	12. Disconnect the LAN cable from the musicbook:20/25 NOW.
	Device Settings >	13. Switching to WLAN requires about 20–30 sec.
	Device Name	 Check the WLAN connection by pressing the INFO button ①№0 on the IR remote control.
	Network	15. If the WLAN connection is correct,
 Select ►Network◄. 	Sound	WLAN will be displayed under Act (Active Interface). If LAN is displayed. Vol: 45 Act: WLAN Digiout: Off
	UPnP Control	witch off the musicbook:20/25, make sure that no LAN cable is con-
	Energy Saving	nected to the musicbook:20/25, and
	Software	boot the device again.

Selection of digital and analog inputs musicbook:20/25

With the musicbook:20/25, 4 digital and 2 analog inputs are available to you. They can be selected in three different ways:

- Using the **musicbook**:**App**
- Using the IR remote control

Start the musicbook: app.

you to the Play View.

Analog 1–2.

• Using the multifunction control wheel on the musicbook: 20/25

Selection via the app

Go to the Source View and then select Digital 1-4 or

Once you have selected the source, the app takes

You can use the app to change the names of the

digital and analog inputs. See p. 24.

Selection using the IR remote control

Digital 2

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- On the IR remote control, press the SET up → SET or SET down → SET buttons until the desired input appears.
- The display and the app simultaneously show you the selected inputs.

Selection using the multifunction control wheel

- Press in the middle of the multifunction control wheel on the musicbook:20/25. Press and hold down the control wheel while turning it to the left or right.
- The display shows the inputs Digital 1–4 and Analog 1–2, from which you can select.

CD function* | musicbook:25 |

- Carefully insert an audio CD with the printed side facing up into the slot of the CD drive until the CD is automatically drawn in.
- After a few seconds, the display will show the number of tracks and the total playing time of the CD.
- For further operation, you can use the IR remote, the app, and the multifunction control wheel on the device.

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Op	eration with app and IR remote control	
•	Play/Pause.	
•	Search (IR remote control).	
٠	Search/Skip (app).	
٠	Skip (skip to the next or previous track).	
•	Repeat one (repeat a track).	
•	Repeat all (repeat the entire album).	—
•	Volume (- / +).	Vol — Vol +
•	Mute.	Ŵ
•	In the Source View of the app, on the CD line you also see the icon for CD eject (app).	

- music**book**:20/25
- By pressing the display button on the IR remote control, you can switch the display between Track/ Playtime, Title, and Artist (IR remote control only).

Op	Operation with the multifunction control wheel		
•	Volume control (rotate left/right).	Vol — Vol +	
•	Mute: briefly press once.	N	
•	Stop the CD: press for > 1 sec.		
•	Eject the CD: press for > 1 sec. again.		

Settings | musicbook:20/25 |

Settings

The Settings menu of the musicbook:20/25 can be opened by pressing the Settings button on the IR remote control.

• The following appears on the display.

In this Settings menu, you can change the settings for **Balance, Display, Digiout, Fixed Line Out**, and **Factory Default**.

Display

In the Settings menu, you have two display brightness levels to choose from.

•	Press the Settings button on the IR remote control.	Q*
•	Select ▶Display with the SET buttons SET up and SET down.	€ SET SET €
٠	Confirm with the OK button.	\checkmark
•	Use the SET buttons SET up and SET down to select ▶High◀ for high brightness and ▶Low◀ for low brightness. Confirm with the OK button.	€ SET SET €

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Digiout

To reduce interference sources, the two digital outputs (optical and coaxial) are switched off in the factory. They can be turned on and off again in the Settings menu.

•	Press the Settings button on the IR remote control.	Q*
•	Use the SET buttons SET up and SET down to select ▶Digiout◀.	⊊ SET SET 玊
•	Confirm with the OK button.	\checkmark
•	Use the SET buttons SET up and SET down to select ▶On◀ to turn on the digital outputs and ▶Off◀ to turn off the digital outputs. Confirm with the OK button.	€ SET SET €

Balance

The balance function is used to regulate volume differences at the listening position if this position is not in the optimal location for sound. For this purpose, different volume levels can be set for the left and right loudspeakers.

•	Press the Settings button on the IR remote control.	Ö*
•	Use the SET buttons SET up and SET down to select Balance.	€ SET SET €
•	Confirm with the OK button.	\checkmark
•	Use the SET buttons SET up and SET down to select the desired range for the left or right loudspeaker. Confirm with the OK button.	€ SET SET €

Settings | musicbook:20/25 |

music**book**:20/25

Fixed Line Out

In the event that you want to include the musicbook:20/25 in an existing system with its own amplifier and volume control, it is recommended that you bypass the volume control of the musicbook:20/25. This is made possible by the Fixed Line Out function. There is then no volume control on the musicbook:20/25; in such a case, volume is controlled on the amplifier connected to the musicbook:20/25. The volume control for the headphone output can continue to be used.

٠	Press the Settings button on the IR remote control.	Q*
•	Use the SET buttons SET up and SET down to select Fixed Line out 4.	€ SET SET €
٠	Confirm with the OK button.	\checkmark
•	Use the SET buttons SET up and SET down to select ► On	€ SET SET €

NOTE: If you use the musicbook:20/25 without integration into an existing system – that is, the musicbook:20/25 with powered loudspeakers or the musicbook:20/25 with power amplifier and passive loudspeakers – the Fixed Line Out function must be set to Off, since the maximum output voltage could otherwise cause severe damage to the loudspeakers. The Fixed Line Out function is turned off by default.

Factory Default

The musicbook:20/25 can be reset to factory settings using the Factory Default function. This causes all settings made to be irrevocably deleted.

•	Press the Settings button on the IR remote control.	Ö*
•	Use the SET buttons SET up and SET down to select Factory Default 4.	€ SET SET €
•	Confirm with the OK button.	\checkmark
•	Use the SET buttons SET up and SET down to select ▶Yes◀ to reset the device to the factory defaults. Confirm with the OK button.	€ SET SET €

The musicbook:App | musicbook:20/25 |

The musicbook: app is available for devices with the Android or iOS operating system. You can download the Android app from Google Play and the iOS app from the App Store. In the respective store, enter "musicbook" in the search field and select the app **musicbook**: **Lindemann audiotechnik**. To install, follow the instructions in the online store as well as on your smartphone or tablet.

The apps differ from each other slightly in their appearance. You can see the differences in the graphic below. Furthermore, deviations may occur depending on the size and resolution of the display as well as the version of the operating system used.

iOS

Android

NOTE: To avoid graphical and system-related problems with the app, we strongly recommend that you always use the latest version of the operating system for your smartphone or tablet. The musicbook: app runs on the iOS operating system version 6 and and higher

and on the Android operating system version 2.3 and higher. In this user manual, the display of the Android version is used to explain the app. All descriptions also apply to iOS devices.

The musicbook: App Navigation bar

The home screen of the app

music**book:**20/25

Source View

In the Source View, you can always go back to the view shown on the left, in which sources can be selected.

Browse View

In the Browse View, the folder structure of the source is displayed, in which it is possible to navigate. The Browse View shows the folder structure with all its levels and is dependent on the source. You navigate within the Browse View by selecting the appropriate folder and by using the Back function in the upper left corner of the app to go back to the next higher level in the folder structure.

Play View

When playing music in the Play View, the current track is displayed, and when you are playing from web radio or a music server, the cover/station logo also appears. Touching the cover will give you a list of the following additional information, depending on availability: Track, artist, bit rate, format, sample rate. In the Play View of the digital and analog inputs (Digital 1–4, Analog 1–2), the input name is displayed. With digital inputs, the current sample rate is also displayed.

You can at any time switch between Source View, Browse View, and Play View; the title that is playing continues to play while you are doing this.

Settings 🧳

The device settings can be changed under Settings (see p. 26).

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The musicbook:App Source View

You can select the following sources in the Source View:

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•	Web Radio	With the musicbook:20/25, you have the option to choose from several thousand national and international web radio stations. This only requires that the WLAN router to which you musicbook:20/25 is connected is connected to the Internet.
•	Music Server	Here you select the UPnP server from which music should be played in your home network. In your home network, you can simultaneously connect multiple UPnP servers that can all be operated using the musicbook:app.
± (USB Input	Using the USB-A port of the musicbook:20/25, songs from external storage media such as USB sticks or USB hard drives can be played.
	My Files	With My Files, you can play locally stored music files on your smartphone or tablet.
	Favorites	In Favorites you can create a list of your favorite songs and web radio stations.
	CD*	If there is a CD in the drive, the title of the CD text is displayed.
-	Digital 1–4	Here you can select the external digital sources connected to the musicbook:20/25.
	Analog 1–2	Here you can select the external analog sources connected to the musicbook:20/25.

*musicbook:25 only

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Web Radio Music Serve USB Input My Files Favorites

Digital 1 Digital 2 Digital 3 Digital 3 Digital 4 Analog 1 Analog 2

The musicbook: App Source View Web Radio

music**book:**20/25

In the Browse View, you have different criteria available for selecting web radio stations. Navigation through the folder structure is shown below as an example.

If you press the Display button 😭 on the IR remote control, the display switches between station and info.

The contents of the source Web Radio are provided by the service provider vTuner. The radio stations and lists are transmitted over the Internet. Using the link

http://lindemann.vtuner.com/setupapp/lindemann/asp/AuthLogin/SignIn.asp

you have the option to set up the Favorite list and My Added Stations as you would like. To do this, you need to log on to the above website with e-mail address, password and ID number. The ID number of your musicbook:20/25 is the last entry on the Web Radio Browse View.

WARNING: For the Web Radio service, you need to have a flat-rate Internet data plan, since you could otherwise incur high costs.

The musicbook:App Source View Music Server

To be able to use the musicbook:20/25 as a network player, your digital music archive must be stored on a UPnP server connected on the same home network as the musicbook:20/25. In general, this task is performed by a NAS (Network Attached Storage) with a music or media server. If you want to use your PC or Mac as a network server, UPnP software must

be installed on it. Programs such as TwonkyServer or Asset, which are available for download on the Internet for a fee, can be used for this.

Web Radio	ធ	UPnP Server1 ► •••	8	Artist / Album >	:			
Music Server >	5	UPnP Server2	1	Album		Maic Server	* = 5	• • 1
USB Input	a	UPnP Server3	1	Title			A Case of You Dana Krall	
My Files	Ţ,	My Android	ī	Composer		DIA	NA KR	ALL
Favorites	ন্ত্রী	······	ল	Genre			or	
CD*			T	Style		6	CAL.	7
Digital 1				Dynamic Browsing			a.	-
Digital 2			7	Internet Radio		00:05 +		07.04
Digital 3			্র	Plavlist		1	44.1 8/12	*
Digital 4				T tuytist		Backward	Paute	Forward
			2	Advanced Search		Mute	Volume down	Volume up
			1			ţ	D	<u>0</u>
Analog 2			a					

NOTE: It's important to note that the Browse View only displays the folder structure of the UPnP server. This has the consequence that the views in the Browse View are not uniform, but vary. Sorting of the music according to specific criteria such as albums, genre, artist, lists, alphabetical sorting, etc., is thus dependent on the UPnP server. For this reason, the views of the folder structure shown here as examples can differ from the view on your device.

If you press the Display button and the IR remote control, the display switches between Title and Artist.

The musicbook: App | Source View | USB Input | My Files | Favorites |

music**book**:20/25

USB Input

The **USB-A port** allows you to play music files from USB sticks, USB hard drives, or portable MP3 players. In the Browse View, you can navigate through the folder structure and select the desired title. Using the Back function in the upper left corner of the app will take you back up to the next higher folder level.

My Files

With **My Files** it is possible to access the music files that are on the smartphone or tablet that operates the musicbook:20/25. In the Browse View, you can navigate through the folder structure and select the desired title. Using the Back function in the upper left corner of the app will take you back up to the next higher folder level.

Favorites

Favorites contains the list of songs, albums, web radio stations, and web radio folders marked by you as Favorites. If you select a song or a web radio station from the Favorites list, it will be opened immediately and the app will switch to the Play View. If you mark an album, folder, or server as a favorite, you will be taken to the corresponding view of the Browse View and can navigate from there.

Marking favorites on Android devices:

The Favorites icon is in the upper right corner of the Play View of the Android app ∎. If you touch this icon, a window opens with the options ▶Add to Favorites◀ and ▶Add to Favorites at Position◀.

If you select \blacktriangleright Add to Favorites \triangleleft , this title is added to the Favorites list in the last position. If you select \triangleright Add to Favorites at Position \triangleleft , you can store the track at any point in the Favorites list. The same applies for adding web radio stations to your Favorites list.

Folders or albums can also be added to the Favorites list. To do this, press and hold the selected object (the Jazz folder, for example) for approx. 1 sec. A window opens with the options ▶Add to Favorites at Position ◀. You can proceed as described above and add the folder or album to the Favorites list.

Marking favorites on iOS devices:

The icon for Favorites is on every line in the Browse View . In the Play View, the icon is at the top right. If you touch this icon, a window opens with the options >Add to Favorites and >Add to Favorites at Position 4.

If you select \blacktriangleright Add to Favorites \triangleleft , this title is added to the Favorites list in the last position. If you select \triangleright Add to Favorites at Position \triangleleft , you can store the track at any point in the Favorites list. The same applies for adding web radio stations to your Favorites list.

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The musicbook:App Source View Digital 1–4 Analog 1–2

Four digital inputs

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

Two analog inputs

The two analog inputs offer connection options for analog sources such as tuners or turntable preamplifiers.

Renaming

In the factory, the names of the inputs for the external digital and analog sources are set to Digital 1-4 and Analog 1-2. These can be changed individually.

Renaming the digital and analog inputs with Android devices:

Press and hold the line of the input for approx. 1 sec. This opens a window where you can rename the digital source, e.g., TV or Tuner. Confirm with OK.

Renaming the digital and analog inputs with iOS devices:

In the Source View, the Rename icon ℓ is displayed next to the digital/analog inputs on the right side. Touching this icon opens a window where you can rename the source, e.g., TV or Tuner. Confirm with **Done** in the menu bar at the top left or with **Return**.

In the Source View, the input is shown with the new name.

Digital 2

The musicbook:App Source View CD*

music**book**:20/25

In CD Browse View*, all titles on the CD are listed. If you select a track, the app goes back to the Play View, and the selected music file is played.

NOTE: With CDs with CD text information, this information is displayed in the Browse and Play View.

To eject a CD, press 🚖 it in the Source View.

The musicbook:App | App settings |

You can open the App settings using the icon 🏠 . The following options are available for selection:

| Discover Devices | Application Settings | Device Settings

Discover Devices

Discover Devices displays all musicbook:20/25 devices available on the network. If several devices are displayed, you can select the one you want here.

Application Settings

Autoconnect

This function allows you to automatically connect to the last musicbook: device used. If this function is disabled, all musicbook: devices found are listed in the menu item Discover Devices, and you need to select the device manually every time you start the app.

• Show Album Art

If available, the App shows album covers. To enable faster access to music files, this function can be varied or turned off.

- Always: The cover is always displayed.
- Directories and Internet Radio: The cover is not displayed in the track lists.
- Never: No covers are displayed.

• Play My Files

If this function is activated, music files that are stored on a smartphone or tablet can be played.

*musicbook:25 only

• Cache

The app collects data in the cache to speed up navigation. This is mainly album covers. Once this data is loaded, the page can be displayed much more quickly if it is called up again. If you change the UPnP server, or if problems occur when displaying images, it is recommended that you clear the cache.

- With Android devices:
 Clear Cache
 needs to be pressed.
- With iOS devices: ▶Purge◀ needs to be pressed.

Device Settings

Device Name

The network name musicbook: can be changed. In the menu item Discover Devices, your musicbook: then appears with the newly assigned name.

Network

Here you can view current network information.
Configure LAN/WLAN (see network configuration, p. 12).

Sound

Balance

The balance function is used to regulate volume differences at the listening position if this position is not in the optimal location for sound. For this purpose, different volume levels can be set for the left and right loudspeakers. The balance adjustment range is ± 6 dB.

• App Volume Limitation This function allows you to limit the maximum volume that can be set with the app. Drag the volume scale (0 to 99) to the desired value. The App Volume Limitation can be switched off.

The musicbook:App | App settings |

music**book**:20/25

UPnP Control

The musicbook:20/25 is a UPnP-compliant network player and can be controlled from any UPnP control point software. UPnP control support can be turned off.

• Energy Saving

The Energy Saving function reduces Stand-by power consumption to 0.2 W. In Energy Saving mode, it is not possible to turn on the musicbook: 20/25 directly in the app.

• Software

In this view, you can view information about the software version. If you press ▶ Check for Update ◀, the app searches for software updates on a USB stick or on the Internet.

USB

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

- Insert the USB stick into the USB-A port on the front of the musicbook:20/25.
- 2. Select ► Check for Update ◄.
- 3. Select ►USB◀.
- 4. Select ► Start Update ◄.

The process can take several minutes to complete.

NOTE: During this process, do not switch off the musicbook:20/25 under any circumstances.

Internet

Firmware updates for the musicbook:20/25 are provided on the Internet at certain intervals. If you select ▶ Check for Update◀ and then ▶Internet◀, the app checks for updates. If an update is found, it is displayed and you can press ▶ Start Update◀. Follow the instructions of the app. The process can take several minutes to complete.

NOTE: This function requires an Internet connection to be available.

The following appears on the display of the musicbook:20/25

Firmware Update DO NOT TURN OFF DEVICE Progress: 4%

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

About

Here you can find information about the app version.

Technical specifications musicbook:20/25

Full metal housing (6.5 mm wall thickness) with high-quality multifunction control wheel. Monochrome, optically bonded OLED display with nearly 180° viewing angle. High-quality, gold-plated connectors for the audio signals. 6-fold multi-layer printed circuit board.

Preamplifier

Fully balanced, analog preamplifier circuit used in professional recording studios. Highly accurate, balanced volume control. Separately designed output stages for balanced and unbalanced output. Both outputs can be used simultaneously.

Headphone amplifier

Analog Class-A amplifier circuit with high-current output stages for excellent sound quality. Headphone volume can be adjusted separately from the outputs. Recommended impedance range of the headphones: 32–300 ohms. Headphone volume can be remotely controlled.

Digital/analog converter

Fully balanced D/A converter that operates in dual-differential mono mode. Modified anagram sonic scrambling (S²) DSP architecture with re-sampling to 352.8 or 384kHz (depending on the input signal). Minimum phase digital filter with apodizing behavior. Three-stage synchronous re-sampling and high-stability master clock (0.25 ps) with balanced clock lines (LVDS) provide extremely high suppression of input jitter.

Highest quality SMD components such as close-tolerance metal film resistors and film capacitors.

CD drive*

Premium slot-in CD drive (Teac). Plays CDs and CD-Rs. Compatible with CD text. The CD player can be remote controlled via IR remote control and app.

Network player

UPnP/DLNA-compatible audio renderer with control point apps for iOS and Android. Support for HD formats, metadata and gapless playback. Network connectivity via LAN and WLAN. Wireless playback of local music files from smartphones or tablets using the "My Files" function.

IR remote control

High-quality metal remote control with acrylic glass cover. Integrated lithium-ion battery that can be charged on the device. Controls all functions except the network player.

Technical specifications musicbook:20/25 Detailed technical specifications (measuring conditions: 230 V, 50 Hz, 20°C)

music**book:**20/25

- Supply voltage range: 100–250V, 50–60Hz.
- Dimensions: 280 x 220 x 65mm (W x D x H).

(Subject to technical changes! Measurement data are typical values.)

Network player

- Ethernet: 10/100Mbit/s.
- WLAN: 802.11b, g, n. 2.4GHz 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 smartphones 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.
- Internet radio: vTuner.
- Gapless playback with WAV, AIFF, FLAC, ALAC, MP3.
- Metadata support
- Supported formats: MP3 up to 320kbit/s VBR/CBR | WAV and AIFF up to 192Hz / 24bit | FLAC up to 192kHz / 24bit | ALAC up to 96kHz / 24bit | AAC | Ogg Vorbis | WMA (Standard only, no Pro and Lossless).

D/A converter

- Inputs D1, D2, D3, D4: two optical and two coaxial digital inputs (75 ohms) for SPDIF signals (LPCM) up to 192kHz and 24bit.
- **Outputs:** one optical and one coaxial digital output (75 ohms) for SPDIF signal. Sample rate output = sample rate input.
- **THD & noise:** < 0.0005% (@ 0 dBFS).
- Dynamic range: > 125dB.
- Resolution: 352.8 / 384kHz, 32bit.
- Digital filter: Minimum phase filter with "apodizing" characteristic.
- Output voltage: 2.50V @ 0dBFS.

- Weight: 3.50kg (musicbook:25) | 3.30kg (musicbook:20).
- Power consumption: 0.2W Stand-by, 4W Network Stand-by, 30W maximum.

Preamplifier

- Inputs A1, A2: analog line-level inputs (RCA) with an input impedance of 10kilohms.
- Outputs: a balanced (XLR) and unbalanced (RCA) line-level output with output impedance of 100 ohms and a maximum level of 2.50V (unbalanced) and 5V (balanced).
- Headphone connection: 6.35mm jack for connecting headphones with 32 ohms to 300 ohms impedance.
- Volume control range: 0....99 with the following characteristic: 0....20 in 2dB steps | 21...70 in 1dB steps | 71....99 in 0.5dB steps.
- Balance control range: ±6dB in 1dB steps.
- Maximum gain: 14dB (5 times).
- Volume setting for 0 dB gain: 70.
- Fixed Line Output (FLO) corresponds to 0dB gain (70), output voltage 2.50V @
 0dBFS.
- Frequency response: 0-200kHz (-3 dB).
- THD & noise: < 0.0005% @ 2.50V output.

musicbook: Listen. Relax. Enjoy.

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