

*Burmester*

## OWNER'S MANUAL

III MUSICCENTER



REFERENCE LINE

Dear Music Enthusiast,

Congratulations on your selection and thank you for your trust.

You have chosen a product that combines absolute fidelity and uncompromising quality with technical innovation and maximum flexibility.

Please read through these operating instructions at least once before initially installing the product so you can fully benefit from all the functions of this truly high-fidelity device. Should any of your questions remain unanswered, please contact your audio dealer or us directly.

Talk to us about any special requests you may have - even if they seem out of the ordinary. We love accepting technically feasible challenges.

We wish you many hours of musical enjoyment.

Your Burmester Team

iPad is a registered trademark of Apple Inc., registered in the U.S.A. and other countries.  
HIGHRESAUDIO is a registered trademark.

Using third-party services (Internet radio, music streaming services) with the 111 Musiccenter is subject to any terms of use of those suppliers, as well as technical requirements on the part of the user such as Internet access and service availability over which Burmester Audiosysteme GmbH has no control.

Software-Version 2.52

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## INTRODUCTION

The 111 Musiccenter was designed and manufactured with the highest possible audio performance in mind. This performance is greatly influenced by the correct installation and operation of this fine audiophile instrument. Therefore, we urge you to read this manual very carefully and keep it handy for future reference.

This manual is intended to give you all the information you need to operate the 111 (Software Version 2.52) safely and to its full potential.

To use all the functions of the 111 Musiccenter you will either need an Apple iPad® with the free BurmesterMC App installed or you can use any computer (PC, Tablet, Mac) with a web browser. (Computer and iPad® are not included). How to use the App or a Web Browser to control the Musiccenter will be explained in separate manuals.

### The Key to Symbols and Text Notations

✓	<b>Requirement</b> This indicates a condition that needs to be fulfilled before the next action can be taken.
▶	<b>Action</b> This indicates a single action.
1. 2. 3.	<b>Action sequence</b> This indicates a sequence of actions that must be taken in the described succession.
↪	<b>Result</b> Indicates the result of an action.

## A WORD OF CAUTION

Please keep in mind that the Musiccenter, like any other electrical device, must be handled with care and caution at all times. Especially digital components operate with very high and potentially lethal voltages. Careless or negligent operation may not only damage the device and other components in the system but may cause bodily harm and even death.

## A BRIEF OVERVIEW OF THE MUSICCENTER

The Burmester Musiccenter 111 combines several premium audio components into one unit, providing multiple options for highest-quality music reproduction:

### **Preamplifier**

Connect your analog and digital signal sources to the reference-class preamplifier and assign names of your choosing to the connected devices.

### **CD drive**

Play CDs directly or rip them into internal memory.

### **Internal hard drive**

Copy songs to the internal hard drive and optimize the sound quality during ripping. If the Musiccenter is connected to the Internet, CD covers as well information about the album and artist are automatically downloaded and saved.

Play back stored music. The search function gives you convenient options to select songs by name, by artist, by album or by genre.

### **Home network**

Connect the Musiccenter to your home network. Thanks to the DLNA/UPnP standard, musical content saved on the Musiccenter is available on other devices connected to the network. At the same time the Musiccenter can access content on those other devices. This includes music on another Musiccenter or on another UPnP/ DLNA servers on the network.

### **Music downloads, music streaming services and Internet radio<sup>1</sup>**

Using your Internet connection, download high-resolution music from providers like HIGHRESAUDIO, stream high-resolution music from service providers like TIDAL and access a wide variety of Internet radio stations.

### **Control via the iPad®-App**

Conveniently control your Musiccenter using an Apple iPad® tablet (optional) with the free BurmesterMC App:

- Choose among connected signal sources.
- Start ripping a CD into internal memory.
- Scroll through the covers of saved albums or display information about albums and artists.
- Create and play playlists.

**Note:** Information on how to install the Burmester MC App and use it with the Apple iPad® can be found in the separate manual „Owner’s Manual for using the iPad®-App“.

### **Control via a web browser**

Even without an iPad® you can access the Musiccenter using any standard web browser. Besides selecting albums, tracks and playlists for playback the web browser interface offers a variety of additional functions:

- Import audio files in the formats flac, m4a, aif, wav, mp3, aac and ogg.
- Edit album and track information
- Export audio files to a USB stick
- Query information about your device
- Change system settings

**Note:** Information on how to operate the Musiccenter via a web browser can be found in the separate manual „User Guide for Operation via a Web Browser“.

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<sup>1</sup> Using an Internet connection and music downloads or streaming services will incur usage-dependent costs.

# IMPORTANT SAFETY INFORMATION

## Meaning of warning symbols and words

This document uses the following warning symbols and words:

	<p>The general danger symbol, in conjunction with the warning words CAUTION, WARNING, and DANGER, serves to warn against the risk of severe injuries. Follow all subsequent instructions to prevent serious or fatal injuries.</p>
	<p>The lightning symbol, in conjunction with the warning word DANGER, serves to warn against a lethal electrical voltage.</p>
<p><b>ATTENTION</b></p>	<p>The warning word NOTICE indicates a danger that can lead to damage to or destruction of the device.</p>
<p><b>CAUTION</b></p>	<p>The warning word CAUTION indicates a danger that poses a low or medium risk of injury.</p>
<p><b>DANGER</b></p>	<p>The warning word DANGER indicates a danger which can directly lead to death or severe injury.</p>

## Opening the device

Do not open the device. The device does not contain any parts that can be maintained by the user. Fuses inside the device may only be replaced by authorized staff, such as your specialist dealer.

## Replacing defective fuses

A defective fuse may render the device inoperative, meaning the device does not turn on even though a power supply is present. When the power plug is connected and the mains switch is on, a lethal voltage is present after opening the fuse holder inside the fuse compartment. The fuses (F1, F2) are located inside the device and may only be replaced by a qualified professional.

## Power supply

Use the supplied 3-wire power cord for power supply. The protective earth contact must not be rendered ineffective. Furthermore, the device may only be connected to an outlet with a functioning protective conductor connection.

The device has a power supply unit that automatically adjusts to the power supply. As a result, the device can be operated with all common power supplies.

Lay the power cord in a way that prevents it from being damaged. Do not use a damaged power cord. Instead, switch the device off and contact your specialist dealer.

## Disconnecting from the power supply

To disconnect the Musiccenter from the power supply completely, use the easy-to-access mains switch on the rear panel.

## Placing the Musiccenter

When selecting an installation location, please note the following:

- Avoid direct sunlight, excessive heat, cold, moisture, and dust.
- Ensure sufficient ventilation. Do not place the device in a closed rack.
- Do not cover the slots and openings on the device. They serve as a means of ventilation.
- Do not expose the device to dripping water or spray water and do not place any containers holding liquids on your device. Do not place any open ignition sources, such as burning candles, on the device.

## Operation during thunderstorms

During thunder and lightning storms, disconnect the device from the power supply by unplugging the power cord from the unit or from the power socket. Switching off the mains switch on the rear panel of the device is not sufficient. For good measure, also disconnect all other components from the power supply.

## Backup

Burmester recommends backing up audio data saved in the Musiccenter to an external USB drive via the web interface. Backups should be performed every six months or after ripping a certain number of CDs. Please refer to the enclosed separate document "Instructions for Operation via a Web Browser" for more information on performing a backup.

# HOW TO UNPACK AND INSTALL THE MUSICCENTER?

### CAUTION

#### **Device is very heavy**

**The Musiccenter is very heavy. If it slips and falls you could be hurt.**

- ▶ If necessary please get the help of a second person to assist with unpacking and installing the device.
- ▶ Please be particularly mindful of sharp corners.

- ▶ Put the box on the floor and carefully lift out all accessories and the Musiccenter.
- ▶ If the initial operating temperature is too high or too low it might lead to malfunctions. Therefore, please let the device rest for a while after unpacking before connecting and operating it.

## Packaging

The packaging has been designed for re-use – unless it was damaged during the initial shipment. We urge you not to discard it but saving it for any future shipment.

## What's in the box?

- ▶ The following items are supplied. Please make sure everything is in the box:
  - 111 Musiccenter
  - RCA-XLR Adapter (4 singles or 2 pairs)
  - Remote control 067
  - Power cord
  - Network cable
  - Storage battery
  - Socket wrench
  - Operating Manuals (OM): Quick-start OM, OM for the Musiccenter, OM for operation via the iPad®-App, OM for operation via a Web browser, TIDAL OM
  - WiFi antennas (2)
  - Warranty documents
- ▶ Please contact your audio dealer if something is missing or anything has been damaged during transport.

## Placing the Musiccenter

### ATTENTION

#### Heat or humidity

**High heat or excessive humidity might damage the device.**

- ▶ Protect the device from direct sunlight.
- ▶ Avoid placing the Musiccenter near heat sources such as radiators, stoves or on top of other components that might get hot, such as power amplifiers.
- ▶ Avoid humidity and dust.
- ▶ Make sure there is sufficient ventilation.

1. Place the Musiccenter on a sturdy and level surface. **CAREFUL!** Keep in mind the heavy weight of the Musiccenter.
2. Protect the device from heat and humidity.
3. Connect the device as described in the following chapter.

# INSTALLING THE MUSICCENTER

In this chapter you will find descriptions of all possible connections. An overview of all the connecting terminals on the back panel of the device can be found in an appendix at the end of this manual.

**⚠ CAUTION**

**Connecting live components**  
**Connecting powered-up devices may damage them.**

- ▶ Please switch off the Musiccenter as well as all other components in your system before making any connections.
- ▶ Switch the components back on only after all of them have been completely and properly connected.

## Installing the storage battery

The Musiccenter is equipped with a rechargeable battery to ensure the safe power down of the system in case of a loss of AC power. The battery is part of the accessories and must be installed before operating the device.

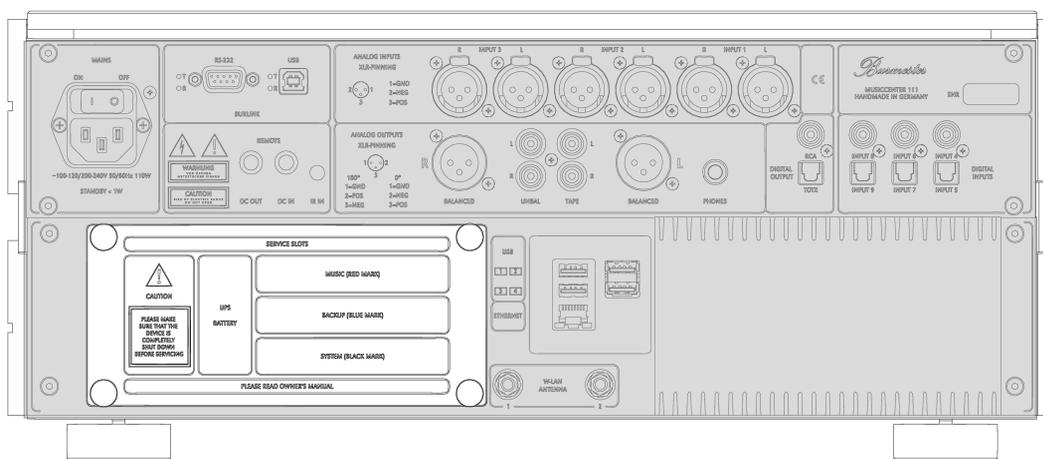
You may skip this part if your audio dealer has already installed the battery for you.

**ATTENTION**

**Operation without the storage battery**  
**The Musiccenter is fully functional even without the storage battery. However, it cannot power down safely in case of a power failure. This may result in data loss or even damage to the operating system.**

- ▶ Install the storage battery or ask your audio dealer to do it for you.

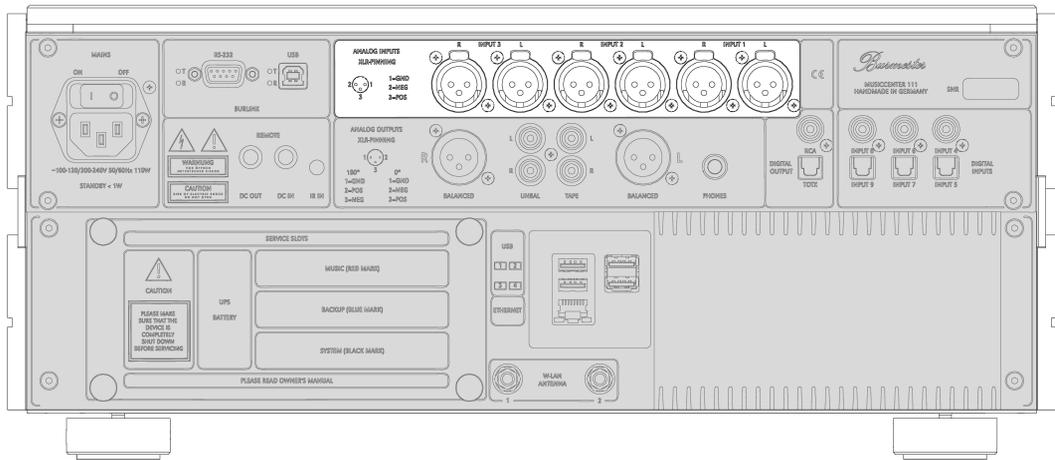
**Note:** Even with the battery installed the display will go dark at once in case of a power loss. However, in the background the system is powered down safely.



### To install the storage battery:

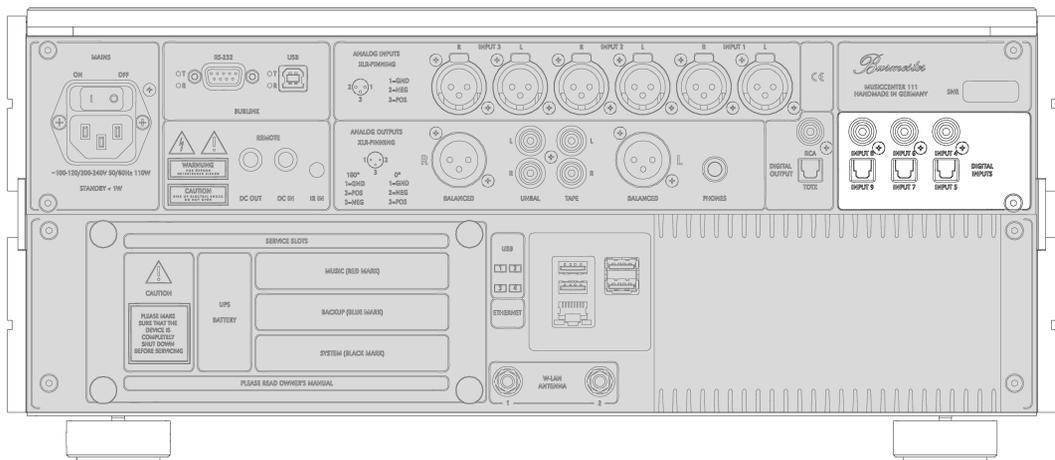
1. Unscrew the four screws and remove the compartment cover.
2. Connect the cable of the battery with the connecting cable in the UPS BATTERY compartment.
3. Push the battery into the compartment until it snaps into place.
4. Replace the compartment cover and secure it with the four screws (hand-tight only).

## Connecting analog sources



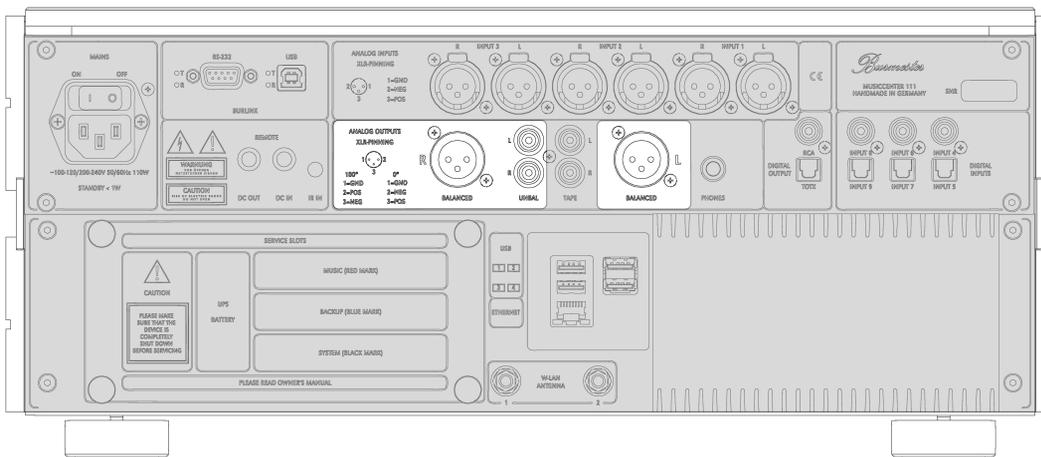
- ▶ Use the terminals **INPUT 1/2/3** to connect analog signal sources with balanced interconnect cables.
- ▶ Unbalanced cables can be used at the same terminals in connection with the supplied XLR-RCA adapters.

## Connecting digital sources



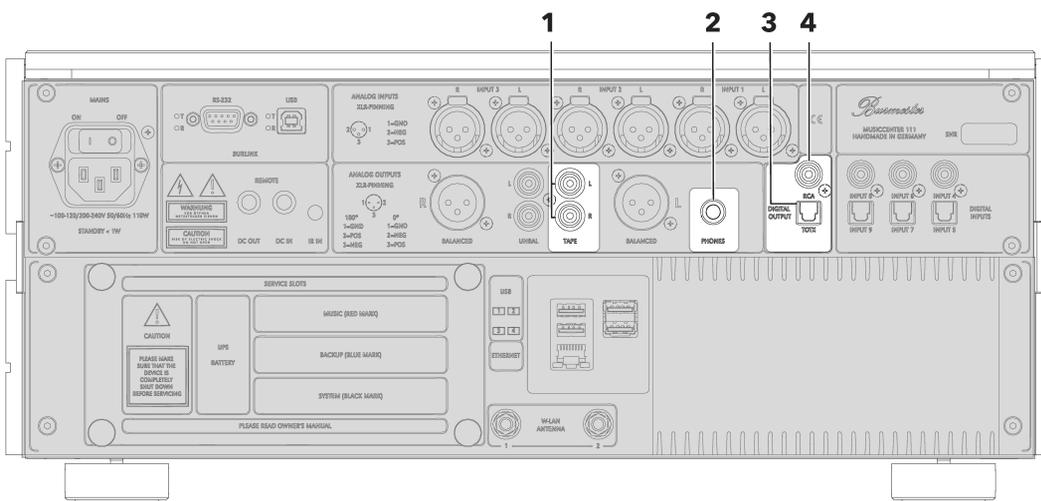
- ▶ Connect **coaxial** digital signal sources, for example a CD player, with the RCA terminals **INPUT 4/6/8**.
- ▶ Connect **optical** digital signal sources, for example a digital tuner, with the TOSLINK terminals **INPUT 5/7/9**.

## Connecting a power amplifier



- ▶ For best sound quality connect the **BALANCED** output terminals with the inputs of your power amp using balanced interconnect cables.
- ▶ Use output terminals **UNBAL** and an unbalanced interconnect if your amp offers unbalanced RCA inputs only.

## Connecting tape recorder, headphones and a digital output



1	<b>TAPE</b> Terminals to connect an analog recording device.
2	<b>PHONES</b> Output for connecting headphones.
3	<b>Optical DIGITAL OUT</b> TOSLINK terminal to connect, for example, a preamplifier using an optical digital cable.
4	<b>Coaxial DIGITAL OUT</b> RCA terminal to connect, for example, a preamplifier using a coaxial cable.

### Tape recorder (TAPE)

This terminal supplies a fixed-level analog signal.

- ▶ This terminal should be used preferably for an analog recording device.

**CAUTION!**

Do not connect audio components that might be damaged by a fixed-level high output signal – for example a power amplifier.

### Headphones (PHONES)

This terminal supplies a variable analog signal.

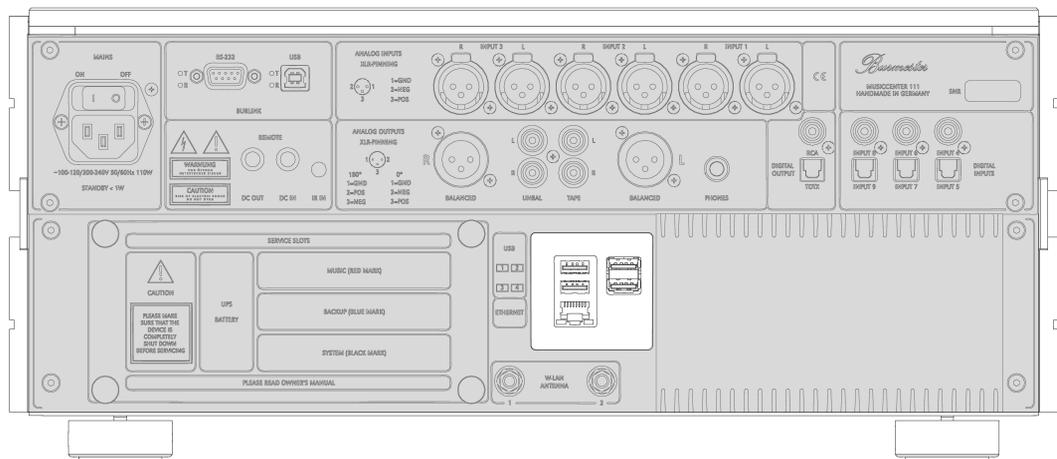
- ▶ Use this to connect your headphones.

### DIGITAL OUT

These terminals supply the output signal in digital form.

- ▶ Use either coaxial or optical cables for connections.

## Connecting a network cable and USB devices



### ETHERNET

- ▶ Use this terminal to connect the Musiccenter via an Ethernet cable with the router of your home network.

Information on operating on a network can be found in the chapter “How to connect the Musiccenter to my Home Network?” on page 21 and in the separate „Owner’s Manual for using the iPad®”.

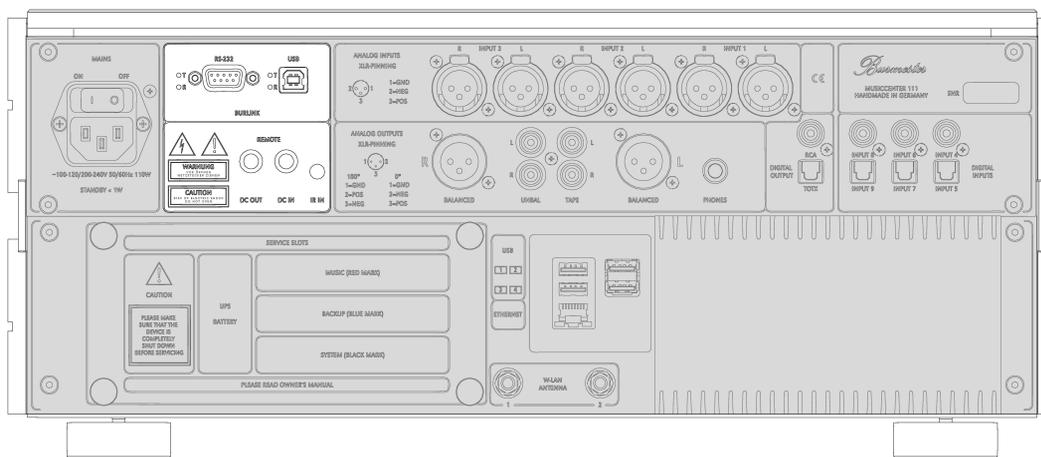
### USB 1 – 4

The USB slots give you the option to connect various USB devices, for example:

- an external hard drive for performing a backup (see also „User Guide for Operation via a Web Browser”)
- a USB stick for downloading an update (see also “Performing a Software Update with a USB Stick” on page 38)
- a USB stick as source to playback music (see also “How to play Content from a USB Storage Device?” on page 29)

- ▶ Plug the USB device into a slot.
  - ↳ It should be recognized automatically and be operational after a brief configuration delay. You will find more details at the relevant positions in the manual.

## Connecting components for remote control



### BURLINK

BURLINK (BURmester LINK) is an interface developed by Burmester to control Burmester audio components with a set of remote commands.

- ▶ Connect the Musiccenter to a control system using a RS-232 cable.

### REMOTE

Connecting the DC-OUT socket with the DC-IN socket of another Burmester device will cause this second device to be turned on and off parallel with the Musiccenter. In the same way the Musiccenter is turned on or off in tandem if its DC-IN socket is connected to the DC-OUT socket of another Burmester component.

- ▶ Connect the Musiccenter and a second Burmester device using a Remote cable. A correct in Remote cable is supplied with Burmester power amplifiers or may be purchased at your Burmester audio dealer.

### IR IN

IR IN allows the connection of an additional infrared receiver. This infrared receiver may be placed in a different room and thus allows controlling the Musiccenter remotely without being in sight of it.

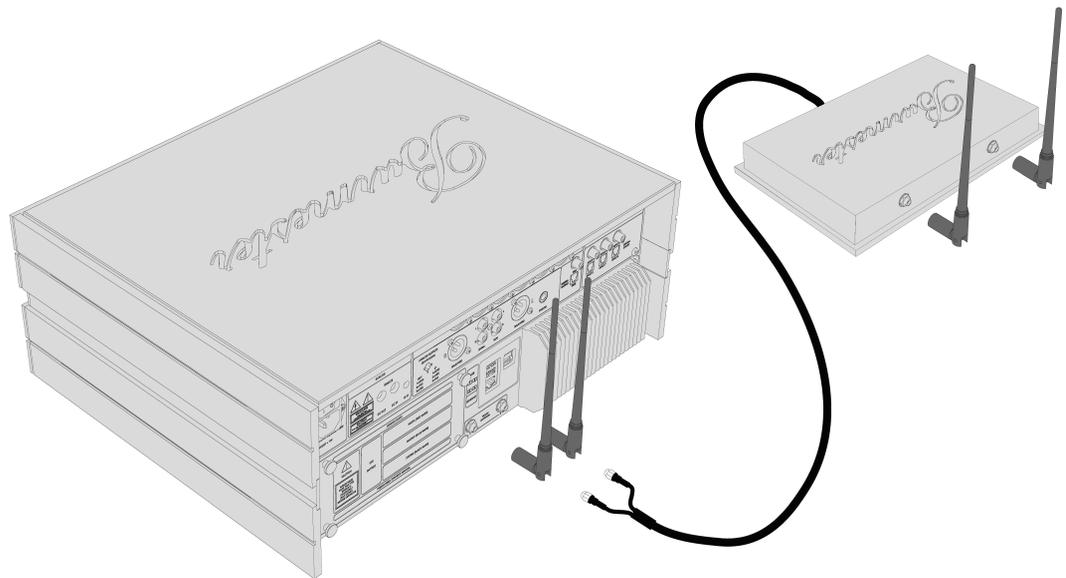
Connecting an external infrared receiver deactivates the internal receiver.

- ▶ Plug the interconnect cable of the infrared receiver into the IR IN socket.

**Note:**

Additional infrared receivers may be purchased directly from Burmester with a length of interconnect cable according to your specifications.

## Connecting the WiFi antennas



WiFi antennas are used to establish a connection between the Musiccenter and an iPad® for example. You can screw the two antennas directly into the connections at the rear of the Musiccenter or into an optional antenna box.

By using the optional antenna box with a connecting cable you are able to elevate the antennas and thus increase their reach.

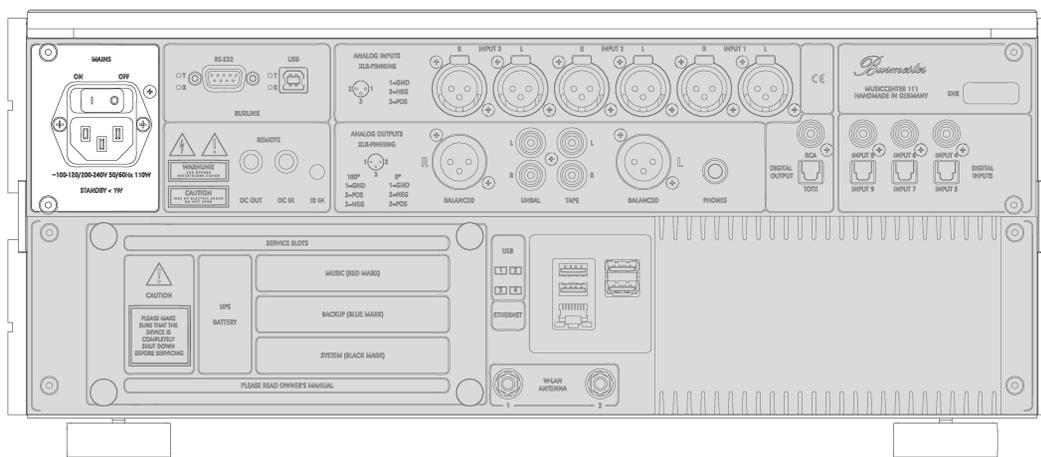
### To connect the antennas directly to the device:

1. Straighten the joints of the antenna bases and screw them into the threads of the connectors on the back panel. Make sure not to skew the antennas to avoid damaging the threads.
2. The antenna bases can be turned and are hinged for up and down folding. After installing the antennas turn them into the desired position and fold them up.

### Connecting the antennas using the optional antenna box:

1. Screw the two connector plugs onto the treads of the connectors on the back panel. Make sure not to skew the plugs to avoid damaging the threads.
2. Straighten the joints of the antenna bases and screw them onto the connectors on the antenna box. Make sure not to skew the antennas to avoid damaging the threads.
3. Place the antenna box in an elevated position above the Musiccenter.

## Connecting the power cord



### **⚠ DANGER**

#### **Dysfunctional power cables or AC outlets**

**Power cords without ground connection or ungrounded AC outlets may cause a life-threatening electric shock.**

- ▶ Use only the supplied 3-wire power cord for AC connection. Under no circumstances should the ground wire be disconnected.
- ▶ Connect the device only to a properly grounded AC outlet.

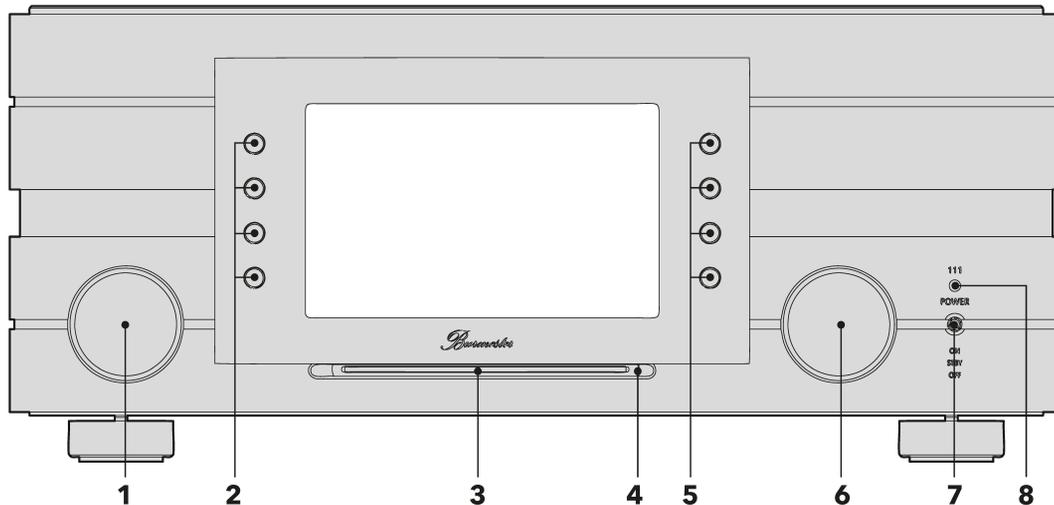
#### **To connect the power cord:**

- ✓ The **MAINS** switch is in the **OFF** position.
- 1. Plug the supplied power cord into the device and connect it to the AC outlet.
- 2. Switch the **MAINS** switch to **ON**.
  - ↳ The **POWER LED** on the front panel will light up green for about 2 seconds (see also "Control Elements and Displays" on page 17, number 8) During this time the Musiccenter checks and adjusts to the available AC voltage. The POWER LED goes out after this process has been concluded successfully.

#### **Note:**

The MAINS switch cuts the device off from the power supply. Please switch the MAINS switch only to the OFF position when the device is in standby mode (the Power LED on the front panel lights up orange) or when it has been switched off with the POWER switch on the front panel (POWER LED is dark).

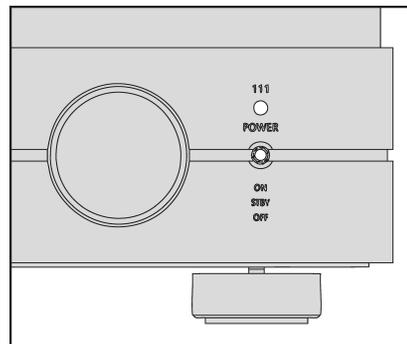
# CONTROL ELEMENTS AND DISPLAYS



1	<b>Rotary dial for selecting menu functions</b> <ul style="list-style-type: none"> <li>• Rotate to flip through menu items</li> <li>• Push to select a menu item</li> </ul>
2	<b>Left row of buttons for selecting functions</b> The display shows the individual function of each button.
3	<b>CD slot</b>
4	<b>Infrared receiver</b> The infrared receiver gets signals from the remote control. Do not cover it up or put items in front of it.
5	<b>Right row of buttons for selecting functions</b> The display shows the individual function of each button.
6	<b>Volume control</b> <ul style="list-style-type: none"> <li>• Turn to change the volume</li> <li>• Push to mute the analog outputs</li> </ul>
7	<b>ON/OFF switch (POWER)</b> <ul style="list-style-type: none"> <li>• <b>OFF:</b> The device is switched off. It can not be switched on by remote control. The LED is dark.</li> <li>• <b>STBY:</b> The device is in standby mode and can be switched on by remote control. The LED lights up orange.</li> <li>• <b>ON:</b> Briefly pushing the toggle switch up turns the device on. The switch springs back to its center position. The LED lights up red. Pushing the switch upwards again will return the device to standby mode.</li> <li>• <b>SERVER MODE:</b> When the LED lights up green the Musiccenter is in server mode. Detailed information can be found in the chapter "How to use the Musiccenter as stand-alone Data Server?" on page 35.</li> </ul>
8	<b>LED</b> <ul style="list-style-type: none"> <li>• LED is dark: The device is switched off.</li> <li>• LED lights up orange: The device is in standby mode and can be switched on by remote control.</li> <li>• LED lights up red: The device is working.</li> <li>• LED lights up green: The device is in server mode. Detailed information can be found in the chapter "How to use the Musiccenter as stand-alone Data Server?" on page 35.</li> </ul>

## HOW TO SWITCH THE MUSICCENTER ON?

1. Set the **POWER** toggle switch on the front panel in center position.
  - ↳ The LED lights up orange and the device is in standby mode.
2. Toggle the **POWER** switch briefly upward or press the **POWER** button on the remote.
  - ↳ The LED lights up red and the system powers up. This may take about a minute.



After the system is powered up for the first time the **Setup Wizard** starts and guides you through the basic settings.

3. Press the **Start** button.



You can now choose to operate the Musiccenter with or without a network connection.

4. *To operate the device without network connection:*  
Press the button **Stand Alone**.  
*To operate the device with a network cable:*  
Press the **Standard** button.  
*To connect the device via WiFi:*  
Press the **Wi-Fi Setup** button.
5. Press the **Next** button.



**Note:**

If you have chosen **Wi-Fi Setup** as connecting method please follow with the next step. All other types of connection do not require further action on your part.

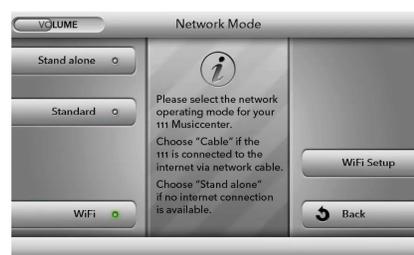
6. Connect your computer via WiFi with your Musiccenter (see also "How to connect Computer and Musiccenter?" on page 25).



7. Open a Web browser on your computer and type in the address box the IP address of the Musiccenter: **192.168.111.1** or its name: **http://MusicCenter111.local**.
  - ↳ The Network menu of your Web interface opens up. It shows a list of all available WiFi networks.
8. Click on the name of the desired WiFi network.
9. A password-protected network is shown with a key symbol. In this case type in the WiFi password of your router and click on **accept**.

Next you'll see the screen **Network Mode**. The dot to the right of **Wi-Fi** should show in color:

<b>Color</b>	<b>Significance</b>
<b>red</b>	The device tries to connect to the WiFi network.
<b>orange</b>	The device is connected to the network but has no connection to the Internet.
<b>green</b>	The device is connected to the network and the Internet via WiFi.



**Note:** If the color stays red for more than a minute the device could not connect to the network. Please repeat all the steps for establishing a connection.

**Note:** You can change these settings again later on. Information about operating within a network can be found in the chapter "How to connect the Musiccenter to my Home Network?" on page 21 and in the Operating Manual for the iPad®.

**To switch the device into standby mode:**

- ▶ Toggle the **POWER** switch on the front panel briefly upward or press the **POWER** button on the remote.
  - ↳ After the system has powered down the device switches into standby mode.

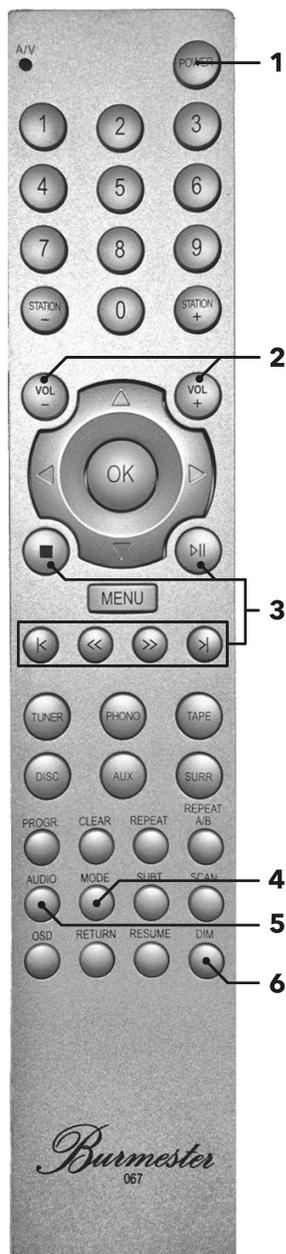
**To switch the device completely off:**

- ▶ Push the **POWER** switch down into **OFF** position.
  - ↳ After powering down the system the device switches off. You can no longer turn it on with the remote control.

**Note:** Using the MAINS switch on the back panel takes the device completely off the power supply. Please turn the MAINS switch to OFF only when the Musiccenter is in standby mode (STBY, LED lights up orange) or after it has been switched off with the POWER switch on the front panel (OFF, LED is dark).

# FUNCTIONS OF THE REMOTE CONTROL

The remote control allows the quick and convenient selection of a number of frequently used functions, such as switching the device on and off, changing the volume or controlling CD playback. For all other more complex functions you will need either an iPad® (optional) or a Web browser.



<b>1</b>	<b>On/off switch</b> To switch the Musiccenter on or move into standby mode.
<b>2</b>	<b>Volume</b> To change the volume.
<b>3</b>	<b>Playback controls</b> <ul style="list-style-type: none"> <li>■ Stop playback.</li> <li>▷   Start playback or pause current playback.</li> <li>K CD Player: Return to the beginning of the current track. Press again to jump to the previous track. Internet radio: Navigate between pre-set stations.</li> <li>⋈ CD Player: Skip to the next track. Internet radio: Navigate between pre-set stations.</li> </ul>
<b>4</b>	<b>MODE</b> Activating the background lighting of the display screen in increments.
<b>5</b>	<b>AUDIO</b> Switching between 96 kHz and 192 kHz sampling frequency.
<b>6</b>	<b>DIM</b> Dimming the display screen in increments until it is off.

## HOW TO CONNECT THE MUSICCENTER TO MY HOME NETWORK?

The connection to a network is the pre-requisite for networking the Musiccenter with other devices or for accessing the Internet. An Internet connection offers you additional functions:

- Download album information from the Internet while ripping a CD.
- Choose from a large number of Internet radio stations.
- Download musical content from providers like HIGHRESAUDIO (pay for service).
- Stream musical content from providers like TIDAL (pay for service).
- Receive messages, for example about a software update.
- Performing a software update via the Internet.

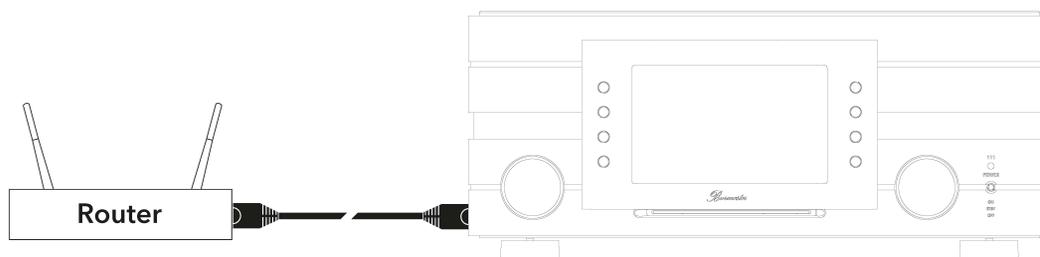
Detailed information how to use these functions can be found in the separate manuals „Owner’s Manual for using the iPad®-App“ and „User Guide for Operation via a Web Browser“.

**Note:** You can also operate the Musiccenter without a network. Detailed information can be found in the chapter “How to operate the Musiccenter without a Network?” on page 23.

There are two ways to connect the Musiccenter to a network:

- using a network cable
- using a WiFi connection

### Establishing a connection with a network cable



1. Connect the Musiccenter with your router using an Ethernet cable.
  - ↳ In most cases the Musiccenter is automatically assigned a network address (when using DHCP).
2. Press the **Settings** button.
3. Press the button **Network Mode**.
4. If the device is not already in **standard mode** press the **Standard** button.
  - ↳ The device changes into **standard mode**.

**Note:** If you encounter problems with your network connection please contact your Burmester dealer. He will be happy to assist you with the installation.

## Connecting to the network via WiFi

1. If you are not in the main menu please press the **Home** button on the lower right of the screen.  
 ↪ This button returns you to the main menu.



2. Press the button **Settings**.

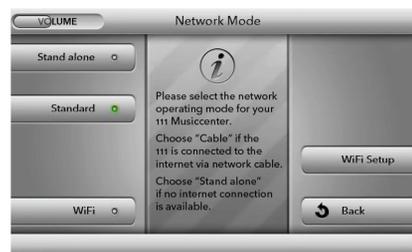


↪ The **Settings** menu opens.

3. Press the button **Network Mode**.  
 ↪ The menu **Network Mode** opens.



4. Press the button **Wi-Fi Setup**.  
 ↪ The device switches to **Wi-Fi Setup**



↪ After the switch you see the following screen.

5. Connect your computer via WiFi with your Musiccenter (see also "How to connect Computer and Musiccenter?" on page 25).
6. Open a Web browser on your computer and type into the address box the IP address of the Musiccenter **192.168.111.1** or its name **http://MusicCenter111.local**.

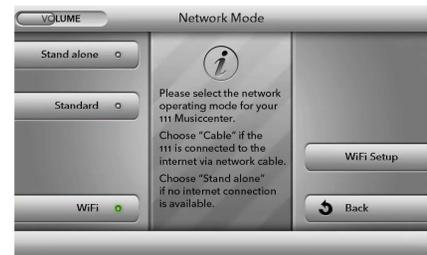


↪ The Network page of the Web interface opens up. It shows a list of all available WiFi networks.

7. Click on the name of the desired WiFi network.
8. A password-protected network is shown with a key symbol. In this case type in the WiFi password of your router and click on **accept**.

Now the screen **Network Mode** opens.  
The dot next to **Wi-Fi** should have a colored background:

Color	Significance
<b>red</b>	The device tries to connect to the WiFi network.
<b>orange</b>	The device is connected to the network but has no connection to the Internet.
<b>green</b>	The device is connected to the network and the Internet via WiFi.



**Note:** If the color stays **red** for more than a minute the device could not connect to the network. Please repeat all the steps for establishing a connection.

**Note:** If you are using an **iPad®** you can also open the **BurmesterMC app** after connecting the iPad® with the Musiccenter. Tap on **Configure**. The browser starts automatically and opens the list of available WiFi networks.

**Note:** If your Musiccenter has already been connected to a WiFi network you can connect to it directly by pressing the **Wi-Fi** button on the left side. The device connects automatically with this network.

**Note:** In case of a hidden WiFi network you have to click on the button **Not in list (hidden ssid)** and type the WiFi name into the **SSID** field. You then add the WiFi password of your router and click **accept**.

**Note:** If the Musiccenter has been connected to a network via WiFi you cannot establish a direct WiFi connection between a computer (iPad®, Tablet, PC, Mac) and the Musiccenter. In that case a WiFi connection needs a router.

## HOW TO OPERATE THE MUSICCENTER WITHOUT A NETWORK?

You can also run your Musiccenter without a connection to your network and control it via WiFi with a computer (iPad®, Tablet, PC, MAC). However, in this case you cannot connect the Musiccenter to other network devices or take advantage of an Internet connection.

1. Press the **Settings** button.
2. Press the **Network Mode** button.
3. Press the **Stand alone** button.
  - ↳ The device changes into **Stand alone mode**.

The Musiccenter now functions as an access point. To control it with a computer (iPad®, Tablet, PC, MAC) you can now establish a direct WiFi connection between Musiccenter and computer (see the next chapter).

## CONTROL OPTIONS FOR THE MUSICCENTER

You can control your Musiccenter with the buttons on the front panel, with the supplied remote control, or with an iPad® as well as any tablet or PC/Mac computer. Depending upon your control device, the software (app or Web interface) and your preferred connection (WiFi or network cable) you have all the options to fashion your best individual control environment. The following chapters explain the various options in detail.

### Using the buttons on the front panel or the remote control

The easiest way to control the Musiccenter is with the buttons on the front or the remote control. You do not need a WiFi connection or a connection between your Musiccenter and your home network. However, this will allow you to control only the basic functions. A detailed description of the buttons and their functions can be found in the sections *“Control Elements and Displays” on page 17* and *“Functions of the Remote Control” on page 20*.

### Using the BurmesterMC iPad® App

An Apple iPad® with the BurmesterMC App installed is a particularly convenient way to control the Musiccenter and make use of all its functions:

- Choose between connected signal sources.
- Start ripping a CD into internal memory.
- Scroll through the covers of saved albums or display information about albums and artists.
- Create and play back playlists.
- Listen to Internet radio, stream high-resolution music from a music streaming service (this will incur service-related cost) or download high-resolution music from a download provider (this will also incur service-related cost).

**Note:** For control with the iPad® App you need a WiFi connection between iPad® and the Musiccenter. Information on how to establish a WiFi connection can be found in the chapter *“How to connect Computer and Musiccenter?” on page 25*. Information on how to use the iPad® App can be found in the separate manual *„Owner’s Manual for using the iPad® App”*.

## Using a Web browser

Even without the App you can use any standard Web browser with any computer (iPad®, Tablet, PC, Mac) to operate the Musiccenter. This is made possible by a resident graphic user interface on the Musiccenter, which can be started by the utilized computer. This control option offers the interested user additional possibilities to manage their music library as well as device settings.

### To use a Web browser you need the following:

- a Computer (iPad®, Tablet, PC, Mac) with an installed Web browser
- a LAN or WiFi connection between computer and Musiccenter

**Note:** Information on how to establish a LAN connection can be found in the chapter *“How to connect the Musiccenter to my Home Network?”* on page 21. Information on how to operate the Musiccenter with a Web browser can be found in the separate manual „User Guide for Operation via a Web Browser“.

## HOW TO CONNECT COMPUTER AND MUSICCENTER?

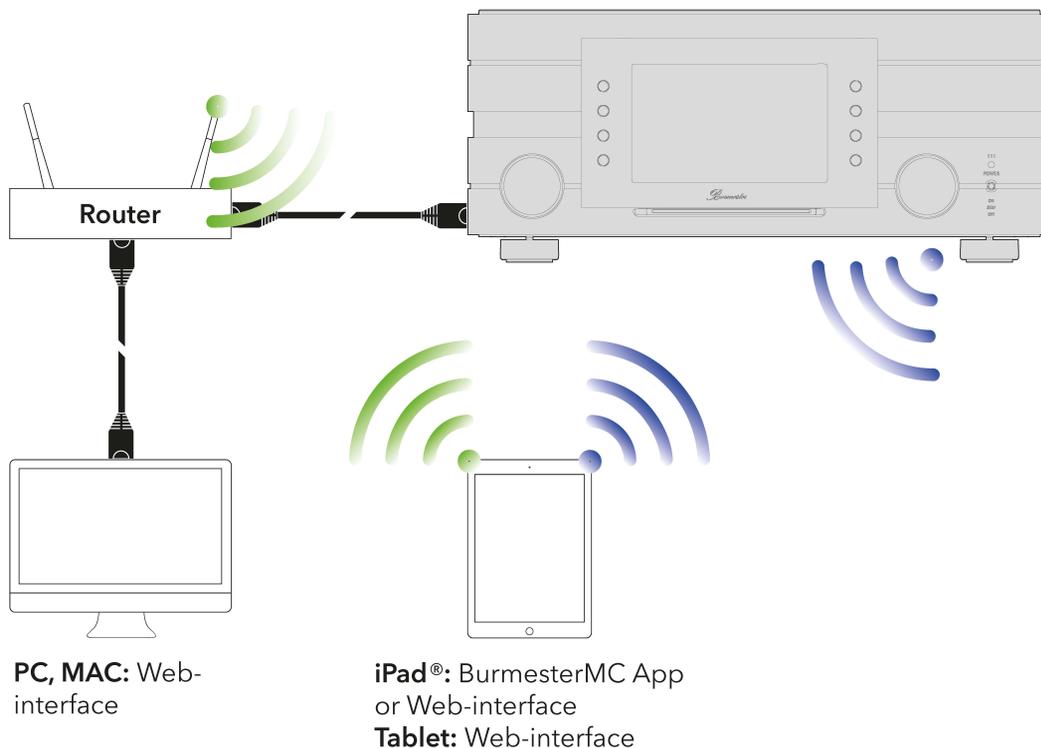
To control the Musiccenter with a Computer (iPad®, Tablet, PC, MAC) you need to establish a WiFi connection between computer and Musiccenter.

You have the following options, depending on the utilized computer and the type of connection between router and Musiccenter - WiFi or LAN (network cable):

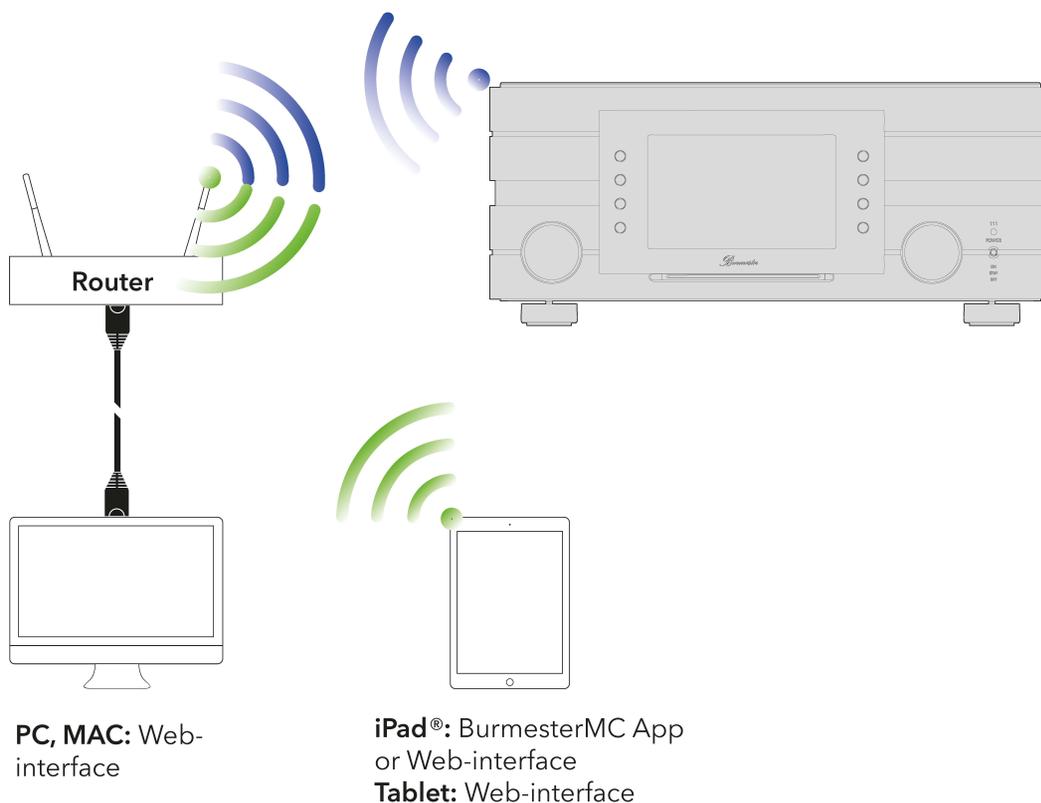
Computer type	Type of connection		Control software
	LAN connection between router and Musiccenter	WiFi connection between router and Musiccenter	
<b>PC/Mac without WiFi</b>	LAN connection to router	WiFi connection to router	Web interface
<b>iPad®</b>	WiFi connection to router or directly to the Musiccenter	WiFi-connection to router	App or Web-interface
<b>PC/Mac with WiFi, tablet</b>	WiFi connection to router or directly to the Musiccenter	WiFi connection to router	Web interface

The following diagrams illustrate the different types of connections and the available control software.

### Types of connection with a network connected via network cable



### Types of connection with a network connected via WiFi



## Establishing a LAN connection between Router and Computer

- ▶ Connect your computer and your router with a network cable.

## Establishing a WiFi connection between Musiccenter and iPad®

- ▶ A description of how to connect the Musiccenter with an iPad® via WiFi can be found in the separate manual „*Owner's Manual for using the iPad® App*“ in the chapter „*How to connect the iPad® with the Musiccenter*“.

## Establishing a WiFi connection between Musiccenter and a Tablet/PC/Mac

If you are using a computer the described procedure may differ depending on the installed operating system. Please consult the manual for the operating system.

- ▶ In case of a direct WiFi connection with the Musiccenter use the following information:
  - Name of the network (SSID): **Musiccenter111**
  - Password: **Burmester111**
- ▶ In case of a WiFi connection via a router use the following information:
  - Name of the network (SSID): **Name of the router**
  - Password: **WiFi password of the router**

## HOW TO PLAY A CD?

You don't have to select the CD player function to play a CD.

1. Insert a CD into the CD slot directly below the display.
  - ↳ Insert the CD into the slot until you feel some resistance. From there it will be pulled in automatically.

**Note:** If you select the **CD player** function without inserting a CD the display will alert you to a missing CD.



- ↳ The CD is read and playback starts immediately. The screen shows information about the currently playing track.

**Note:** Only audio CDs can be played back.



2. To operate the CD player please use the left row of tabs on the screen or the relevant buttons on the remote control.

On the device	On the remote	Function
		<b>PAUSE:</b> Pauses playback at the current location. (Shown on screen only during running playback).
		<b>START:</b> Starts playback. (Shown on screen only at STOP or PAUSE).
		<b>SKIP AHEAD:</b> Playback jumps to the next track.
		<b>SKIP BACK:</b> Playback jumps back to the beginning of the current track. Press again and it jumps to the beginning of the previous track.
		<b>STOP:</b> Stops playback and returns to track 1. (Shown on screen only during running playback)
	no function	<b>EJECT:</b> Ejects the CD. (Shown on screen only when playback has stopped).

## HOW TO PLAY CONTENT AVAILABLE ON THE NETWORK?

To connect the Musiccenter to an external hard drive to enable, for example, multi-room streaming of music you need only an active UPnP/DLNA server or another Musiccenter on the network.

With the iPad® App in the menu Devices > Inputs or via the Web interface (in the pop-up menu) you can select the desired audio source. Detailed information can be found in the separate „Owner’s Manual for using the iPad®-App“ and „User Guide for Operation via a Web Browser“.

**Note:** To facilitate an easy combination of devices on a network without regard of the brand the Musiccenter has been certified for the UPnP and DLNA standard. A trouble-free combination with other devices requires that they conform to at least one of these standards.

The user interface and therefore the display of available music depend on whether a Burmester Musiccenter or the server of another brand has been selected as source. Detailed information can be found in the separate manuals „Owner’s Manual for using the iPad®-App“ and „User Guide for Operation via a Web Browser“.

## HOW TO PLAY CONTENT FROM A USB STORAGE DEVICE?

To play back music from a USB storage device requires that it first had to be stored there. It makes no difference how they got there (for example from a PC or downloaded from the Musiccenter), how the tracks are organized (all in one folder or in various subfolders) and in which compatible format they have been saved (for example MP3, AAC, FLAC).

### To play content from a USB storage device:

1. Plug the USB storage device into one of the four USB slots on the back panel of the Musiccenter.  
↳ Playback starts automatically.
2. To control playback please use the left row of tabs on the screen or the respective buttons on the remote control.

On the device	On the remote.	Function
		<b>PAUSE:</b> Pauses playback at the current location. (Shown on screen only during running playback).
		<b>START:</b> Starts playback. (Shown on screen only at STOP or PAUSE).
		<b>SKIP AHEAD:</b> Playback jumps to the next track..
		<b>SKIP BACK:</b> Playback jumps back to the beginning of the current track. Press again and it jumps to the beginning of the previous track.
		<b>STOP:</b> Stops playback and returns to track 1. (Shown on screen only during running playback).

# HOW TO COPY (RIP) A CD INTO INTERNAL MEMORY?

Copying music or videos from a data source to a computer's hard disk is referred to as ripping. After the CD is analyzed, the data is imported, supplemented with information on the album and artist, and saved in the 111's database in the audio format FLAC.

Ripping a CD requires you to operate the Musiccenter via the iPad® App or Web interface. Both variants are virtually identical and are therefore described together below. Differences are indicated in the text. The screenshots show the iPad® example.

Detailed information can be found in the separate manuals „Owner's Manual for using the iPad®-App“ and „User Guide for Operation via a Web Browser“.

**Note:** Copying a CD for private use is legal in most countries. It is illegal, however, to make copies for commercial use or to circumvent effective measures for copy protection. Please make sure that you follow the copyright law in your country when copying audio content.

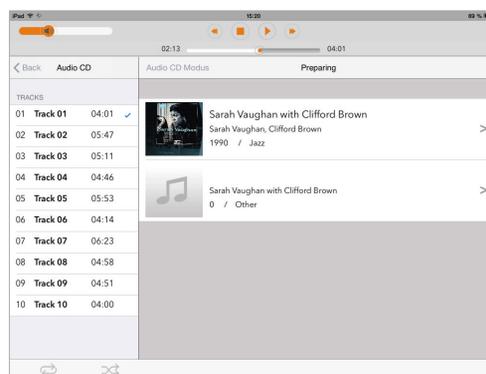
## How to rip a CD:

- ▶ Start the iPad® App or open the Web user interface of the Musiccenter

1. Insert a CD into the CD slot.
  - ↳ After you have inserted the CD up to a noticeable resistance it is pulled in automatically. The CD is read and playback starts immediately.
2. iPad® App:  
In the main menu tap **Audio CD**.  
Web user interface:  
Click on the arrow next to pop-up menu and select **Audio CD**.
  - ↳ The tracks are displayed but not the album and track names.
3. Tap on the Symbol .
  - ↳ The analysis starts.



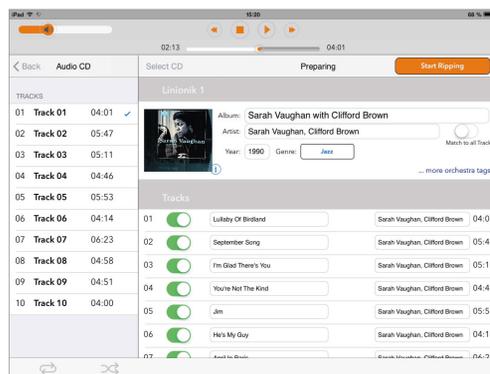
- ↳ If appropriate album information has been found you will be prompted to confirm the associated album. In some cases you have the choice between several albums.



**Note:** Album information can only be downloaded if an Internet connection exists. If you are not connected to the Internet the album information (without cover) is obtained from the resident database.

4. After selecting an album the album and all tracks are displayed. You now have the following editing options:

a. **Album cover:** Tap the **i**-symbol on the right lower corner of the cover and make your selection in the menu window. With **Extended Search** you can search the Internet for additional covers, including different artists or albums.



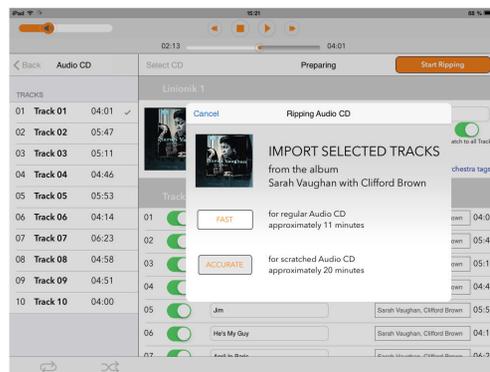
- b. **Album, artist, year:** Tap on the respective input button and change the information. Activate the function **Match to all Tracks** if you want to assign the Artist's name to all tracks.
- c. **Genre:** Tap on the button and select the genre from a list.
- d. **Orchestra Information:** Tap on **...more orchestra tags** (Web interface: **...orchestra tags**) and fill in the field as necessary.
- e. **Tracks:** You can edit title and artist for each track individually (iPad® App: If you activated **Match to all Tracks** you cannot change artist information). Tap on one of the buttons to change the information manually.
- f. **Excluding tracks from ripping:** To exclude a track from ripping tap the button (Web interface: click the checkmark).

5. Click on **Start Ripping**.

↳ A window opens for the selection of ripping quality.

**FAST:** Use FAST for CDs that have no or only a few scratches. The CD is imported without any measures to improve quality.

**ACCURATE:** Use ACCURATE for heavily scratched CDs. The imported data is checked according to defined criteria and even the most minor errors are eliminated during ripping. However, ripping with ACCURATE takes about twice as long as with FAST. The approximate times for each alternative are displayed.



6. Tap on the desired option.

↳ Ripping starts. A progress bar shows the progress for each track. If ACCURATE has been chosen the quality of the original data is indicated by stars after ripping: 5 stars mean maximum quality.

**To cancel ripping:**

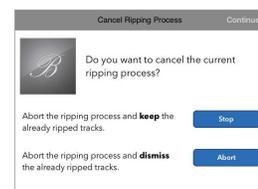
▶ Tap on **Cancel**.

↳ A menu opens:

**Stop:** Tracks that have already been ripped remain.

**Abort:** Tracks that have already been ripped are deleted.

**Continue:** Ripping continues.



After the process is completed the album is available on the device permanently. You can then play the album via the **player**.

# HOW TO PLAY CONTENT FROM ANALOG OR DIGITAL SIGNAL SOURCES?

1. Push the button **Home** at the lower right of the screen.



↩ This button takes you back to the main menu.



2. Select **Analog Inputs** or **Digital Inputs** by turning the left rotary dial and push the dial in to select the respective menu window.

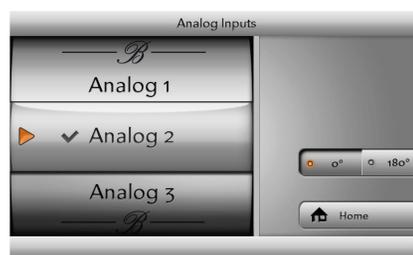


3. Scroll through the inputs by turning the left rotary dial and push it to make your input selection.



The input has been selected. Additionally, you can change the phase with the button on the right side of the screen (above the Home button).

4. Choose the alternative that sounds better to you by switching back and forth between the two settings.



When selecting a digital source you can also change the sampling rate by pressing the button on the right side of the screen to select 96 kHz or 192 kHz.

In case of digital signals the volume control affects only the input signal.



**Note:** You can assign custom names to the analog and digital inputs. You will find additional information in the Owner's Manual of the iPad®.

## HOW TO PLAY CONTENT FROM THE HARD DISK (PLAYER)?

Even without an iPad® or computer you can play back content from the hard drive. However, the choices are limited. For example, only the last played playback list can be displayed. To play it back is similar to playing a CD with the commands Start, Pause, next track and previous track.

### To play back content from the hard drive:

1. Press the **Home** button on the right side of the screen.

↳ This button takes you back to the main menu.



2. Select the **Player** function by turning and pushing the left rotary dial.  
↳ The **Player** menu opens and the first track of the last played playback list is shown.
3. Start playback by pushing the relevant button in the left row of buttons on the front of the device or on the remote control.



## HOW TO PLAY CONTENT FROM THE INTERNET?

### Listening to Internet Radio

By selecting the function **Internet Radio** you can listen to radio stations that broadcast over the Internet. However, this requires the following:

- The Musiccenter must be connected to the Internet via a network.
- At least one radio station must be imported into a playback playlist.

Stations may be imported into a playback list using the iPad® or the Web interface. Detailed information can be found in the separate manuals „Owner’s Manual for using the iPad®-App“ and „User Guide for Operation via a Web Browser“.

#### To listen to a radio station:

1. Press the Home button on the lower right side of the screen.  
↗ This button takes you back to the main menu.



2. Select the function **Internet Radio** by turning and pushing the left rotary dial.  
↗ The menu **Internet Radio** opens and the last played station is played back.

3. To listen to another station: Press the button **Change Station**.  
↗ The menu opens and displays a list of stations saved to a playback list.



4. Select a station by turning and pushing the left rotary dial.  
↗ The selected station is played back.



### Streaming Music online via TIDAL

TIDAL is an online streaming service, which provides lossless music on the Internet.

- ▶ To connect your TIDAL user account with the Musiccenter you have to type in your access information on the iPad® App under Settings > Online Services or on the Web user interface.

**Note:**

Information on how to use TIDAL can be found in the TIDAL User Manual. The use of services from third parties (Internet radio, music streaming services etc.) with the 111 Musiccenter is subject to any of their terms of use as well as to technical requirements on the part of the user and the third parties (Internet access, service availability) over which Burmester Audiosysteme GmbH has no control.

## HOW TO USE THE MUSICCENTER AS STAND-ALONE DATA SERVER?

The Musiccenter can be operated as a stand-alone data server. In this case the preamplifier section is switched off while accessing the hard drive and the streaming of data, for example in a multi-room playback system, is preserved. In this operating mode the power consumption is considerably lower than operating with the preamp section.

### To change into server mode:

1. Press the **Home** button on the lower right of the screen.  
 ↳ This button takes you back to the main menu.



2. Press the button **Settings**.



↳ The **Settings** menu opens.

3. Press the button **Server Mode**.



↳ The menu **Server Mode** opens.

4. Press the button **Execute**.  
 ↳ Preamplifier and screen are switched off.  
 ↳ The **POWER-LED** on the front panel lights up green.



### To cancel Server Mode:

- ▶ Push the **POWER** switch on the front panel briefly upwards,  
or
- ▶ Press the **POWER** button on the remote control.

Of course, the server mode can also be activated and de-activated with the iPad® or the Web user interface. Detailed information can be found in the separate manuals „Owner’s Manual for using the iPad®-App“ and „User Guide for Operation via a Web Browser“.

# HOW TO QUERY SERIAL NUMBER AND VERSION?

The Info menu lets you query information about the Musiccenter.

**Note:** Detailed information about the system is available via Web-server access in the menu **System > Information**

## To query device information:

1. Press the **Home** button on the lower right of the screen.  
 ↪ This button takes you back to the main menu.



2. Press the **Settings** button.



↪ The **Settings** menu opens.

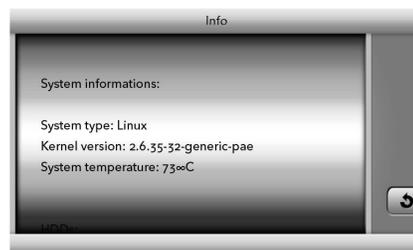
3. Press the **Info** button.



↪ The **Info** display opens.

Turn the left rotary dial to scroll through the information:

- **System information:** Operating system, kernel version, system temperature
- **HDD (Information about the SSD and RAID hard drives):** Status, model, temperature, total and available memory space
- **RAM (RAM-Status):** total and available memory, size of buffer and cache
- **Database:** Status, current operating time, number of artists, albums, tracks and playlists
- **Network:** IP address, MAC address, network mask
- **WiFi:** Status, channel, SSID (name)



# HOW TO PERFORM A SOFTWARE UPDATE?

By updating the software of your Musiccenter you gain new or improved functions. As soon as a software update becomes available it is shown as a message in the display of the device (the same on the iPad® and on the Web user interface). The update may be downloaded from the Internet and installed on the Musiccenter.

- ▶ As an alternative your dealer will be happy to perform the update for you. Please contact your dealer.

**Note:** A software update can also be performed via the Web user interface (see also „User Guide for Operation via a Web Browser“).

## Performing a Software Update via the Internet

**CAUTION!** A software update for the Musiccenter takes about 10 minutes. During the update the Musiccenter must not be cut off from AC power.

**Note:** By pressing the **Cancel** button you can stop the update process at any time.

- ✓ The display shows that a software update is available.

1. Press the **Home** button on the lower right of the screen.  
 ↳ This takes you back to the main menu.
2. Press the **Settings** button, then **Update**.



- ↳ The Download menu opens.
- ▶ Press the **Download** button.



- ↳ The download begins: The progress bar shows the advancement. **Estimated time** indicates the remaining time.

**Note:** During downloads you can use the Musiccenter as usual with all functions.



- ✓ The update has been completely downloaded.
- ▶ Press the button **Install Update**.  
 ↳ The update is now being installed.

**Note:** During installation you cannot use the Musiccenter.



After the update has been successfully installed the Musiccenter restarts.

## Performing a Software Update with a USB Stick

1. Plug the USB stick containing the update software into one of the four USB slots.

2. Press the **Home** button on the lower right of the screen.

↳ This takes you back to the main menu.



3. Press the **Settings** button.



↳ The **Settings** menu opens.

4. Press the **Update** button.

↳ The **Update** menu opens.

**Note:**

If no USB stick has been inserted a screen message will alert you. In this case insert the USB stick into one of the slots.



5. Press the **Install Update** button.

↳ The update begins. The progress bar indicates that the update is proceeding.

6. Remove the USB stick after the update has been completed.

**Note:**

After a successful update the Musiccenter will restart.



## WARRANTY

This device carries a manufacturer’s warranty of three years. However, it implies that the Musiccenter has been properly connected and used and is mechanically undamaged. Furthermore, the Warranty Certificate and the Warranty Extension form must have been sent back to us. The warranty is voided by any modification done by non-authorized personnel or alterations to the housing, the inputs or other terminals.

# MAINTENANCE, REPAIR AND CARE

## Maintenance

The Musiccenter itself does not need any maintenance.

## USV Battery

The Musiccenter incorporates a battery to ensure an orderly power-down in case of a power loss. This battery has a limited life expectancy. Depending on the surrounding temperature and the operating time of the Musiccenter the USV battery **should be replaced after one, but definitely after two years.**

- ▶ Please contact your audio dealer. He will coordinate with you the best way to check and exchange the battery for you.

## Internal Hard Drives

The RAID hard drives used in the Musiccenter to save ripped audio files have, like all hard drives, a limited lifespan. Depending on the rate of use these hard drives should be replaced after a certain time.

### Note:

You can use only hard drives that have been specially formatted by Burmester.

- ▶ Please contact your audio dealer. He will coordinate with you the optimal solution for exchanging the internal hard drives.

## Repair

Repairs may only be done by authorized technicians.

- ▶ In case of a repair please contact your audio dealer.

## Care

### ATTENTION

#### Liquids and scouring detergents

**Liquids entering the housing may destroy the Musiccenter. Similarly, scouring detergents, sponges and brushes can damage the surface of the device.**

- ▶ Do not use liquids or wet rags to clean the device.
- ▶ Do not use scouring detergents, sponges, brushes or any abrasive surfaces to clean the housing.

- ▶ Just polish the device lightly with a soft moistened cloth. You may use a glass cleaner for the screen.

## DISPOSAL (ONLY CONCERNS THE EUROPEAN UNION)



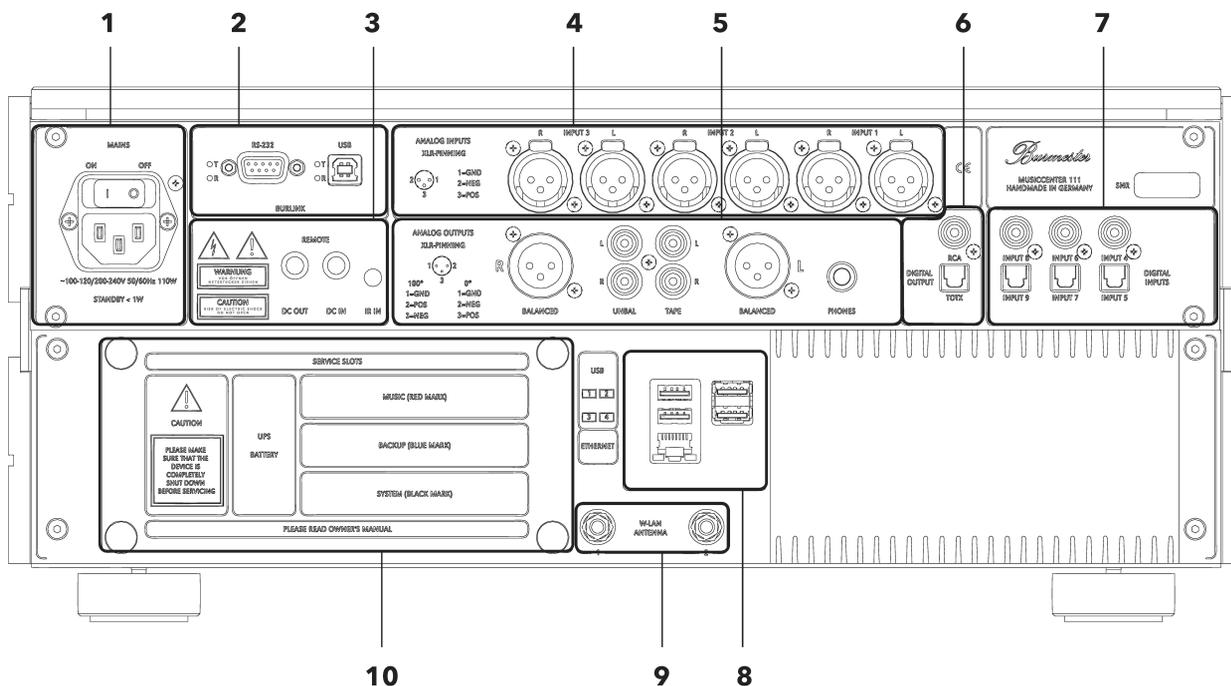
Federal Law in Europe mandates in the Electro- and Electronic Devices Law (ElektroG) that all electrical or electronic devices must not be disposed with general household garbage. This also applies to the 111 Musiccenter.

#### If you want to dispose of the device:

Take it to a communal collection station or to a private return facility. Addresses will be supplied by your communal garbage collector.

# APPENDIX

## Overview of the Musiccenter's Back Panel



1	<b>Power connection</b>	Appliance coupler C14 according to IEC 60320-1 Power switch
2	<b>BURLINK</b>	RS-232 USB 2.0, Type B
3	<b>Remote control</b>	DC IN: 5,2/2,2 mm Hollow plug DC OUT: 5,2/2,2 mm Hollow plug
	<b>Infrared</b>	IR IN: Mini jack
4	<b>Analog inputs</b>	3 x Stereo XLR
5	<b>Analog outputs</b>	BALANCED: 1 x Stereo XLR UNBAL: 1 x Stereo Cinch TAPE: 1 x Stereo Cinch fixed (TAPE) PHONES: 1 x Stereo jack 6,35 mm
6	<b>Digital outputs</b>	RCA: 1 x coaxial TOTX: 1 x optical TOSLINK
7	<b>Digital inputs</b>	INPUT 4, 6, 8: 3 x coaxial RCA INPUT 5, 7, 9: 3 x optical TOSLINK
8	<b>Ethernet</b> <b>USB</b>	1 x RJ-45 4 x USB 2.0, Type B
9	<b>WiFi antennas</b>	2 x Coaxial screw connectors
10	<b>Service cover</b>	Hard drives Battery

# GLOSSARY

<b>AAC/.aac</b>	<b>Advanced Audio Coding</b> AAC is a lossy standard for compressing audio data.
<b>Cinch</b>	Cinch is a name, mainly used in Germany, for plugs in unbalanced connections for the transmission of electrical signals (such as audio signals). The internationally better known name is <b>RCA</b> .
<b>DLNA</b>	<b>Digital Living Network Alliance</b> DLNA is a common standard, developed and accepted by more than 250 companies, for the seamless transfer of, among others, audio and video data regardless of manufacturer or device.
<b>FLAC/.flac</b>	<b>Free Lossless Audio Codec</b> FLAC is a free standard for lossless compression of audio data.
<b>LAN</b>	<b>Local Area Network</b> LAN is computer network which has (without additional measures) a limited reach of Up to 500 meters.
<b>.m4a</b>	The file suffix m4a denotes MP4 data containing only audio.
<b>MP3/.mp3</b>	mp3 is a patented standard for the lossy compression of audio data.
<b>Ogg/ogg</b>	Ogg is a free data standard for multimedia files which can contain simultaneously audio-, video- and text data.
<b>RAID</b>	<b>Redundant Array of Independent Disks</b> RAID allows to organize several (physical) disk drives of a computer like a single (logical) drive. This offers enhanced data security in case a single drive crashes.
<b>RCA</b>	<b>Radio Corporation of America</b> RCA is the internationally accepted name of plug connections for the unbalanced transfer of electrical signals (for example audio signals). Mainly in Germany the term <i>cinch</i> is used.
<b>RJ-45</b>	RJ-45 is a plug connection for networks.
<b>RS-232</b>	RS-232 is a standard for a serial interface.
<b>SSID</b>	<b>Service Set Identifier</b> SSID is the custom identification of a device within a <i>WiFi</i> network.
<b>TOSLINK</b>	TOSLINK is a standardized connecting system for the optical transfer of signals via optical fiber cables.
<b>UPnP</b>	<b>Universal Plug and Play</b> The UPnP standard allows the universal control - regardless of brand - of devices like audio components, routers, printers or home security systems via an IP-based network (IP = Internet Protocol).
<b>WAV/.wav</b>	<b>WAVE</b> WAVE is a container format for the digital storage of audio data.
<b>WLAN</b>	<b>Wireless Local Area Network</b> WLAN is the name of a wireless local computer network. It is often also called Wi-Fi.
<b>XLR</b>	XLR (also called cannon plug) is an industry standard for electrical plug connections. The three-pronged XLR plug is the standard plug for analog audio connections in professional recording studios as well as for high-end audio components with balanced signal transfer.

# TECHNICAL SPECIFICATIONS

## Input/Output Terminals

Analog inputs	3 x Stereo XLR
Analog outputs	1 x Stereo XLR 1 x Stereo RCA 1 x Stereo RCA, fixed (TAPE) 1 x Stereo jack 6,35 mm (PHONES)
Digital inputs	3 x coaxial 3 x optical (TOSLINK)
Digital outputs	1 x coaxial 1 x optical (TOSLINK)
Remote control BURLINK	1 x RS-232 1 x USB 2.0, Type B
Remote control REMOTE	2 x Hollow plugs 5,5/2,5 mm (DC OUT, DC IN)
Infrared	1 x Mini jack
Ethernet	1 x RJ-45
USB	4 x USB 2.0, Type A
Power connector	Appliance coupler C14, IEC 60320-1 compliant with power switch
WiFi antennas	2 x Coax screw connectors

## Components

CD drive	CD-DA
Hard drive (depending on version)	2 x 3 Terabyte (RAID 1) 2 x 6 Terabyte (RAID 1) 3 x 1 Terabyte (RAID 5, SSD)
Screen	7" LED, backlit, brightness adjustable in 3 steps, resolution: 800 x 480 pixels
Uninterrupted Power Supply	Lead battery, 12 V, 0,8 Ah for controlled shutdown, buffer time: app. 2 minutes

## General Specifications

Dimensions (W x H x D)	17.9" x 8.5" x 15.9" (455 mm x 215 mm x 405 mm) Not including the space needed for connector plugs.
Weight	Approx. 61.7 lbs (Approx. 28 kg)
Voltage	100 V – 120 V, 50 Hz/60 Hz 200 V – 240 V, 50 Hz/60 Hz
Fuses	F1, F4, F5: T 1A E F2, F3: T 500mA E F6: T 50mA E
Power consumption	ON: max. 110 W Server Mode: max. 55 W STBY: <1 W OFF: <1 W



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