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Introduction

Dear music lover,
Congratulations on your purchase and
thank you for choosing Burmester.

You have chosen a product that combines absolute fidelity and uncompromising quality with technical innovation. Before using the device for the first time, we recommend that you read through the entire operation manual at least once so that you can make full use of the capabilities of this exceptional audio device. Should you still have questions, please speak to your dealer or contact us directly. We're always happy to discuss your special requests, no matter how unusual. We love a good technical challenge.

We wish you an exceptional listening experience.

Your Burmester team

About this device

The stereo power amplifier 216 seamlessly joins the legendary family of internationally multiple award-winning Burmester power amplifiers. A special feature of the 216 is its universal flexibility. It thus combines powerful performance with great dynamics and excellent timing and sonically performs with an impressively spatial resolution and musical warmth. This is achieved by combining tried and tested circuit principles with new components and the use of a completely new cooling concept. The 216 power amplifier can drive speakers with the lowest impedance values and complex loads easily, to achieve a transparent and spacious sound with superior dynamics.

FEATURES:

- Completely symmetrical design
- Optimized protection circuits outside the signal path
- Mono with jumper
- Input stages in Burmester X-Amp technology (Class A)
- Completely DC-coupled signal path without sound-distorting capacitors in the signal path
- Generously dimensioned power supply allows high current delivery capability
- Effortless control of any loudspeaker due to high damping factor over the entire frequency range, even at high frequencies
- Stable at all loads over the entire frequency range
- Solid screw terminals for speaker cables
- Remote on/off via Burmester devices
- Integration into Smart Home control possible

About this operation manual

This operation manual describes the installation, connection and operation of the Burmester 216 power amplifier.

Please read this operation manual in full and keep it in a safe place.

Permissible operating conditions

Please take care to only ever use your Burmester device under the following conditions:

Maximum altitude: 2000 m

Humidity < 50%

Temperature range: 20–30 °C

Intended use

This device is intended for use in home music systems.








Safety instructions


Meanings of warning symbols and words


The following warnings, symbols and warning words are used in this document:


 The general danger symbol in combination with the warning words **CAUTION**, **WARNING** and **DANGER** warns of the risk of serious injury. Follow all of the subsequent instructions to avoid injury or death.


 The flash symbol in combination with the warning word **DANGER** warns of a life-threatening electrical voltage.

 This warning symbol in combination with the warning word **CAUTION** warns of high-intensity sound.

 **ATTENTION:** indicates a hazard could damage or destroy the device.

 **CAUTION:** indicates a hazard that poses a low or moderate risk of injury.

 **WARNING:** indicates a hazard that could cause serious injuries or death.

 **DANGER:** Indicates a hazard that will result in immediate death or serious injuries.

Important notes



CAUTION! RISK OF INJURY TO CHILDREN

This device poses various injury risks if used improperly. Never leave your children unattended with the device. This device is not intended for use by children.



ATTENTION! OPERATION DURING THUNDERSTORMS

During thunderstorms and when there is a risk of lightning, disconnect the device from the power supply. It is not sufficient to switch off the power switch on the back of the device. Unplug the power cable from the device or the power socket. To be safe, also unplug all connected components from the power supply.



DANGER! OPENING THE DEVICE

There are no parts inside the device that can be serviced by the user. To fully disconnect the device from the power supply, you have to disconnect the power plug. Life-threatening voltages are present inside the housing! Do not open the device.



DANGER! DANGEROUS VOLTAGES

The loudspeaker outputs of a power amplifier may carry potentially fatal voltages. Do not touch the loudspeaker connectors on the device and loudspeaker.



WARNING! DANGER DUE TO INCLUDED BATTERIES

The optional Burmester remote control contains batteries. Do not expose them to excessive heat.

Improper use may result in overheating, fire, explosion, smoke and gas.

Have the batteries replaced by your dealer. Swallowing the batteries can lead to death! Always keep children away from small parts that can be swallowed.



ATTENTION! REPLACING FAULTY FUSES

If you cannot switch on the device even though the power supply is connected, the reason might be a faulty fuse. This can have various causes. Have the device checked by your Burmester dealer. Only authorized personnel are permitted to change the fuses.



Unpacking and setting up the 216

Unpacking the 216



ATTENTION! DAMAGING THE HOUSING

To avoid damaging the housing, do not use any pointed or sharp objects to open the packaging.

Carefully remove the device from the packaging.



CAUTION! RISK OF INJURY DUE TO HEAVY WEIGHT

The device is very heavy and can cause injury if it falls. The device should only be unpacked and set up by persons who are experienced in handling heavy loads. If necessary, have a second person help you unpack and set up the device.

Remove all the packaging materials and padding from the device.



WARNING! SUFFOCATION HAZARD

Parts of the scope of delivery are delivered packed in plastic bags. Remove the packaging from the vicinity of children.

PACKAGING

Keep the packaging for later transport.

SCOPE OF DELIVERY

Please check the scope of delivery for completeness and damage. If parts of the delivery are missing or if you notice any damage when unpacking the device, please do not connect them and consult your Burmester dealer instead.

Scope of delivery

- Box containing your 216 power amplifier
- Power cable, 2 m in length
- Remote cable, length 2 m
- 2 XLR-RCA adapters
- Care kit
- Operation manual
- Warranty certificate
- Art print (on aluminium frame)

Setting up the 216

Place the device in a suitable location.



ATTENTION! DANGER DUE TO IMPROPER INSTALLATION

When choosing the installation location:

Only place the device on level and load-bearing surfaces.

The device requires ventilation from below. This is ensured by the height of the feet. Place it only on firm surfaces, not on high-pile carpet.

Never use the device outdoors.

Avoid exposure to direct sunlight as well as excessive heat, cold, moisture and dust.

Ensure adequate ventilation. Never place the device on an enclosed shelf.

Do not cover the slots or openings on the device. These are important for ventilation.

Do not expose the device to dripping or splashing water, and do not place containers of liquid on the device.

Never place open fire sources, such as lit candles, on the device.



Overview of the 216

FRONT OF THE 216



- | |
|-------------------------------------------|
| 1. POWER button |
| 2. POWER LED |
| 3. Infrared sensor for the remote control |

REAR OF THE 216



- | | |
|-----|---------------------------------|
| 4. | Input, right channel |
| 5. | BurLink connection |
| 6. | Power switch |
| 7. | Device fuses (behind cover) |
| 8. | Remote IN jack |
| 9. | Remote OUT jack |
| 10. | Input, left channel |
| 11. | Output, right channel, positive |
| 12. | Output, right channel, negative |
| 13. | Power jack |
| 14. | Output, left channel, negative |
| 15. | Output, left channel, positive |



Connection and operation of the 216

Connection of the 216



ATTENTION! DEVICE TEMPERATURE AFTER UNPACKING

If the temperature is too high or too low, this can cause the device to malfunction. After unpacking the device, leave it to sit in the room for a time before connecting and switching it on.

LOUDSPEAKER CABLES

Burmester recommends using cables with a large cross-section to connect the loudspeakers to the power amplifier. A large cross-section allows you to maintain the damping factor of the power amplifiers for optimal control of the loudspeakers.

Best results are achieved by using original Burmester loudspeaker cables, which have the same electrical and tonal characteristics as the internal wiring of Burmester loudspeakers and amplifiers.

For optimal results, use customised loudspeaker cables with spade lugs.



ATTENTION! The insulation of the loudspeaker cable must correspond to the original Burmester loudspeaker cable and must at least meet the flammability tests according to VW-1. Please contact the manufacturer or your dealer for details.

CONNECTION CABLES

The inputs of the 216 are balanced (XLR 3pin) and have the following pin assignment: **PIN1=GND, PIN2=NEG, PIN3=POS**. For sound-related reasons, the inputs should be balanced. If your preamplifier does not have the appropriate outputs, you can use the enclosed adapters.

Note: For optimal signal transmission, we recommend using Burmester connection cables. Your Burmester dealer will be happy to advise you on your choice.

POWER CONNECTION



DANGER! POWER CONNECTION AND PROTECTIVE EARTH CONDUCTOR

Use the 3-wire power cable supplied with the device to connect it to the power supply. The protective earth contact must never be disabled. The voltage is set at the factory to the national standard for the country in which you purchased your Burmester device. If your device is to be operated with a different voltage than the one set at the factory, please contact your Burmester dealer. They know which modifications have to be made to the device. Before putting the device into operation, check to see if the mains voltage specified on the back panel of the device matches the mains voltage in your household. If you are uncertain of the mains voltage at your installation site, please make sure you check with your authorised Burmester dealer prior to installation.

Route the power cable in such a way that it cannot be damaged.

Do not use the power cable if it has been damaged.

CONNECTING THE POWER CABLE

1. Before connecting the power cable, first establish all other connections to the device.
2. Before connecting the device, make sure that the power switch (6) on the back of the device is in OFF position.
3. Plug the enclosed power cable into the power jack (13) on the back of the 216.
4. Plug the power plug into a nearby socket.
5. Do not switch on the device before all connections have been established and checked. Only switch on the power amplifier if you are sure that your preamplifier is set to a low volume.

Connecting and operating modes

Burmester stereo power amplifiers can be connected and operated in various ways. These are explained below. You should determine the optimum operating mode for you by ear and your personal preferences in order to achieve the best possible listening experience. Your dealer will be happy to help you with this.

STEREO MODE

In stereo mode, each of your two stereo loudspeakers is controlled by one power amp channel of the 216.

1. Connecting a preamplifier for stereo mode

Prepare to connect your devices by placing the 216 near your preamplifier. Make sure that all connections are easily accessible. Switch off the 216 and all other components before connecting.

Connect your devices as shown in **figure 1**:

Connect the right and left outputs of your preamplifier to the inputs of the right and left channels (4), (10) of the 216. Use balanced XLR cables for this purpose.

If your preamplifier does not have the appropriate outputs, you can use the enclosed adapters. Please ask your dealer about this if necessary.

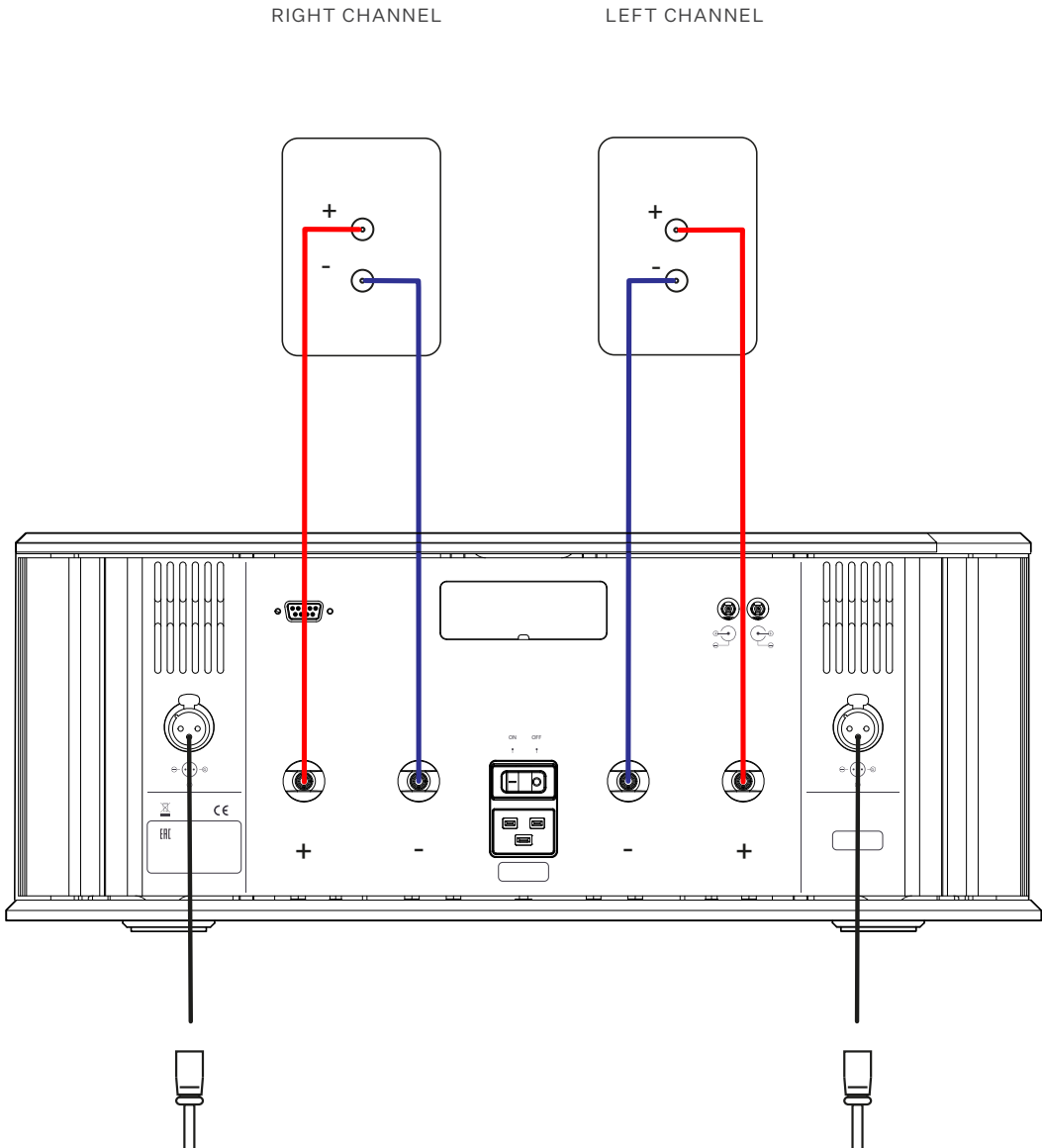
2. Connecting the loudspeakers for stereo mode

Connect your loudspeakers as shown in **figure 1**. When connecting, also observe the operation manual for your loudspeakers.

Correct polarity

When connecting the loudspeakers, make sure that the connections have the correct polarity. It is important that you make all connections in phase:
positive output of the power amplifier (+) = positive input of the loudspeaker (+)
negative output of the power amplifier (-) = negative input of the loudspeaker (-)

FIGURE 1
STEREO MODE WIRING DIAGRAM



Do not switch your hi-fi system on again until you are sure that all the devices are connected correctly. Set your preamplifier to a low volume first.

MONO MODE

For mono mode, you need two 216 power amplifiers to play a stereo signal. In mono mode, you have significantly more power and control compared to operation with only one power amplifier. The result is particularly dynamic music reproduction with enhanced imaging and spatiality. This mode also allows you to place the power amplifiers in close proximity to your loudspeakers. It is therefore recommended if you want to keep your loudspeaker cables as short as possible.

For mono mode, use one **Burmester mono adapter per amplifier**. Ask your dealer for more information.

1. Connecting a preamplifier for mono mode

Place your device in a suitable location. Make sure that all connections are easily accessible.

Switch off both 216 units and all other components before connecting. Connect your devices as shown in **figure 2**:

1. Connect the left and right outputs of your preamplifier with one Burmester mono adapter each.
2. Connect the outputs of the mono adapters marked in red to the inputs for the right channel (4) of both 216 units.
3. Connect the outputs of the mono adapters marked in blue to the inputs for the left channel (10) of both 216 units.

Use Burmester XLR cables to connect the mono adapter up to your preamplifier or to the amplifier inputs.

Longer, custom-made Burmester adapter cables are also available on request.

If your preamplifier does not have the appropriate outputs, you can use the enclosed adapters. Please contact your dealer for this.

2. Connecting the loudspeakers for mono mode

Connect your loudspeakers as shown in **figure 2**.

When connecting, also observe the operation manual for your loudspeakers.

Correct polarity

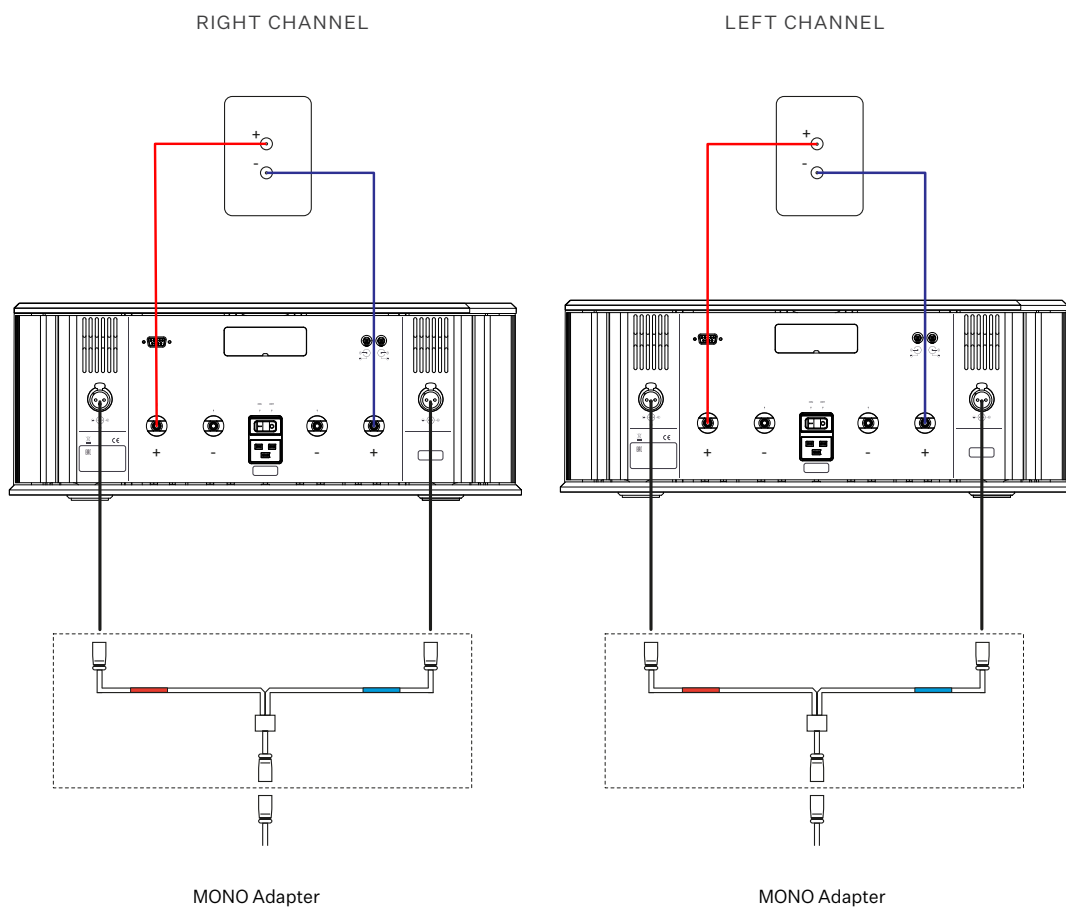
When connecting the loudspeakers, make sure that the connections have the correct polarity.

In mono mode, the signal is output exclusively via the two positive binding posts (11) and (15) of the 216. Right channel (red) = positive output signal, left channel (blue) = negative output signal.

The negative binding posts (12) and (14) of the 216 are not used in mono mode.

FIGURE 2

MONO MODE WIRING DIAGRAM



Do not switch your hi-fi system on again until you are sure that all the devices are connected correctly. Set your preamplifier to a low volume first.

BI-AMP MODE

For bi-amp mode, you need two 216 power amplifiers to play a stereo signal. Bi-amp mode is possible if your loudspeakers have separate connections for low and mid-high frequencies.

In bi-amp mode, the particularly important mid-high range benefits directly from the fact that the relevant power amplifier channels are unburdened by the power-intensive low range. This leads to a significantly improved imaging and a more precise locatability of voices and instruments.

For bi-amp mode, use one **Burmester bi-amp adapter per amplifier**. Ask your dealer for more information.



ATTENTION! For bi-amp mode, make sure to remove the connection jumpers between the low frequency and med-high frequency paths at your loudspeakers! Otherwise, your amplifiers and your loudspeakers may be damaged.

When connecting, also observe the operation manual for your loudspeakers.

There are two different connection variants for bi-amp mode, which are described below.



a) Vertical bi-amp mode

In vertical bi-amp mode, each of your loudspeakers is fed by one 216 power amplifier. This mode allows you to place the power amplifiers in close proximity to your loudspeakers.

1. Connecting a preamplifier for vertical bi-amp mode

Place your device in a suitable location. Make sure that all connections are easily accessible.

Switch off both 216 units and all other components before connecting.

1. Connect the left and right outputs of your preamplifier with one Burmester bi-amp adapter each.
2. Connect the outputs of the bi-amp adapters marked in red to the inputs for the right channel (4) of both 216 units.
3. Connect the outputs of the bi-amp adapters marked in blue to the inputs for the left channel (10) of both 216 units.

Use Burmester XLR cables to extend the connection of the bi-amp adapters to your preamplifier. Longer, custom-made Burmester adapter cables are also available on request.

If your preamplifier does not have the appropriate outputs, you can use the enclosed adapters. Please ask your dealer about this if necessary.

2. Connecting the loudspeakers for vertical bi-amp mode

Connect your loudspeakers as shown in **figure 3**.

When connecting, also observe the operation manual for your loudspeakers.

Correct polarity

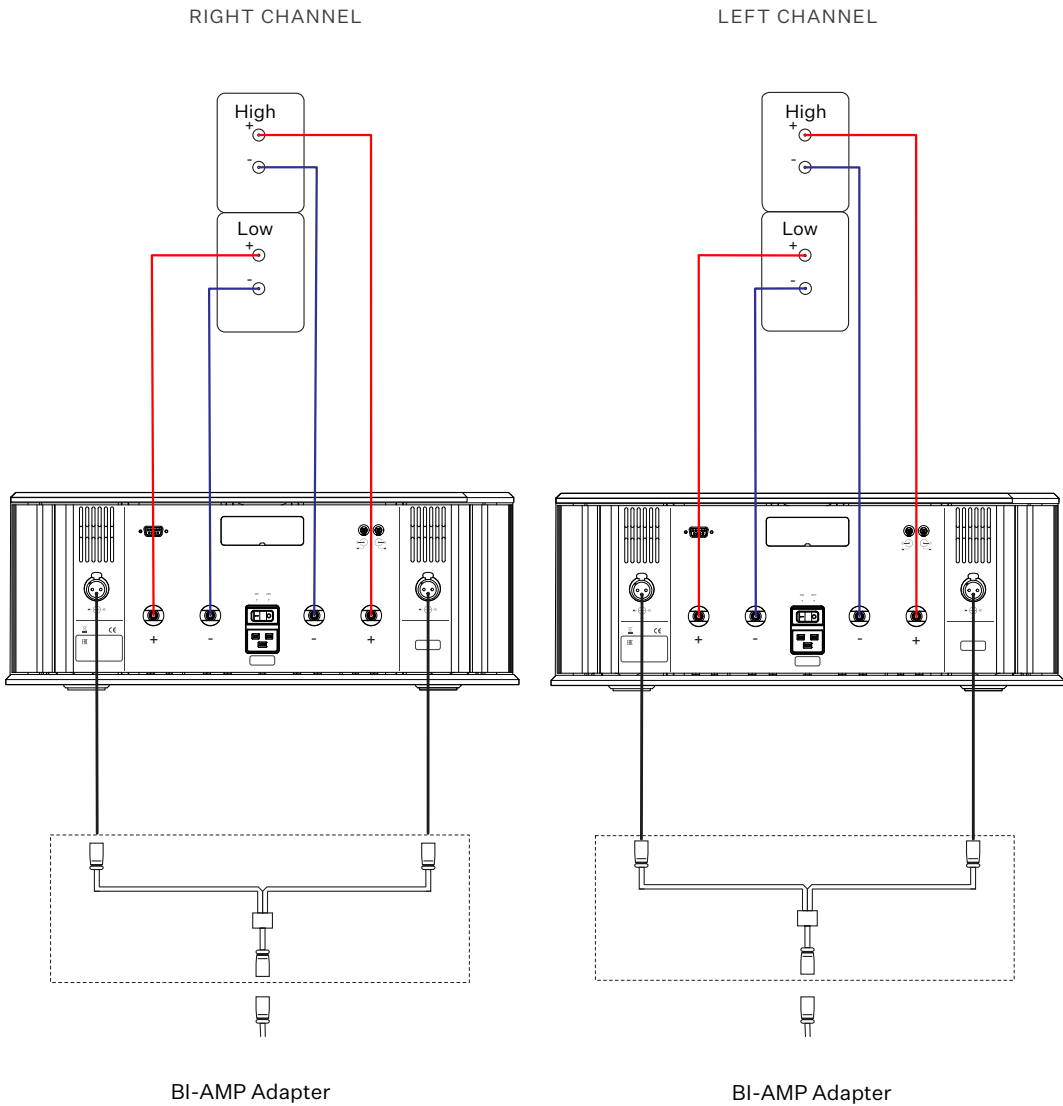
When connecting the loudspeakers, make sure that the connections have the correct polarity. It is important that you make all connections in phase:

positive output of the power amplifier (+) = positive input of the loudspeaker (+)

negative output of the power amplifier (-) = negative input of the loudspeaker (-)

Do not switch your hi-fi system on again until you are sure that all the devices are connected correctly. Set your preamplifier to a low volume first.

FIGURE 3
WIRING DIAGRAM FOR VERTICAL BI-AMP MODE



b) Horizontal bi-amp mode

In horizontal BI-AMP mode, one 216 power amplifier feeds the mid-high frequency paths of your loudspeakers and another feeds the low frequency paths. In this mode, the power amplifier, which is responsible for the mid-high range, is completely unburdened by the low frequencies.

1. Connecting a preamplifier for horizontal bi-amp mode

Place your device in a suitable location.

Make sure that all connections are easily accessible.

Switch off both 216 units and all other components before connecting.

1. Connect the left and right outputs of your preamplifier with one Burmester bi-amp adapter each.
2. Connect the outputs of the bi-amp adapter for the right channel to the inputs of the right channel (4) of both 216. The colour coding of the outputs is irrelevant here.
3. Connect the outputs of the bi-amp adapter for the left channel to the inputs of the left channel (10) of both 216. The colour coding of the outputs is irrelevant here.

Use Burmester XLR cables to extend the connection of the bi-amp adapters to your preamplifier or to the amplifier inputs. Longer, custom-made Burmester adapter cables are also available on request.

If your preamplifier does not have the appropriate outputs, you can use the enclosed adapters. Please ask your dealer about this if necessary.

2. Connecting the loudspeakers for horizontal bi-amp mode

Connect your loudspeakers as shown in **figure 4**.

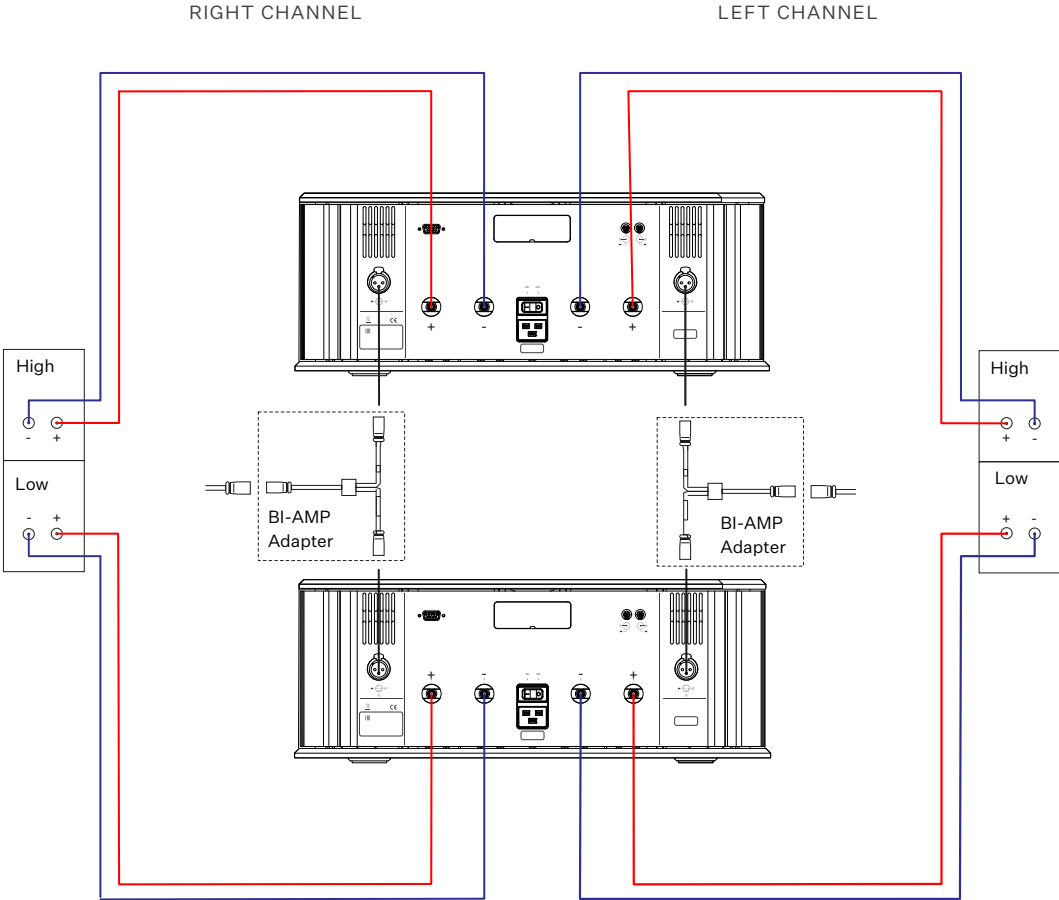
When connecting, also observe the operation manual for your loudspeakers.

CORRECT POLARITY

When connecting the loudspeakers, make sure that the connections have the correct polarity. It is important that you make all connections in phase: positive output on power amplifier (+) = positive input on loudspeaker (+) negative output on power amplifier (-) = negative input on loudspeaker (-).

Do not switch your hi-fi system on again until you are sure that all the devices are connected correctly. Set your preamplifier to a low volume first.

FIGURE 4
WIRING DIAGRAM FOR HORIZONTAL BI-AMP MODE



Operation of the 216



CAUTION! HIGH-INTENSITY SOUND

Loud output signals can damage your hearing.

- Set the connected source devices/preamplifiers to a low volume before switching on the 216.
- Avoid listening at high volume levels for long periods of time.

SWITCHING THE 216 ON AND OFF AT THE DEVICE

Only switch on the 216 if you are sure that your preamplifier is set to a low volume.

Switching on the 216

Set the 216's power switch (6) on the back of the device to the ON position.

- The POWER LED (2) lights up and the device is in standby mode.

Now press the POWER button (1) on the front of the device.

- The POWER LED (2) changes colour and the device is switched on.

Switching off the 216 (standby mode)

Now press the POWER button (1) on the front of the device.

- The POWER LED (2) changes colour and the device is switched to standby mode.

To switch off the 216 completely, set the power switch (6) on the back of the device to OFF position.

SWITCHING THE 216 ON AND OFF WITH THE REMOTE CONTROL

The 216 can be switched on and off with the optional remote control.

Only switch on the 216 with the remote control if you are sure that your preamplifier is set to a low volume.

Switching on the 216 with the remote control

Set the 216's power switch (6) on the back of the device to the ON position.

- The POWER LED (2) is lit up.

Press the (POWER) button on your remote control.

- The device is switched on and the POWER LED (2) changes colour.

Switching off the 216 with the remote control

Press the (POWER) button on your remote control.
→ The device is switched to standby mode and the POWER LED (2) changes colour.

To switch off the 216 completely, set the power switch (6) on the back of the device to OFF position.

SELECTING THE LED COLOURS

To customise the POWER LED (2) colours to suit your preferences, you can choose one of two configurations:

1. (Standard)	2. STBY = Red	3. ON = Green
2.	4. STBY = Orange	5. ON = Red

To change the colour scheme, the 216 must be in standby mode.

→ Press and hold the POWER switch (1) for about 10 seconds.

AUTO POWER DOWN

The 216 has an auto power down (APD) function. This ensures that the 216 switches to standby mode if there is no input signal for a period of approx. 30 minutes.

The APD function is switched on when the 216 is delivered. It can be switched on and off at the device, with the remote control or via BurLink.

To switch APD on and off, the 216 must be switched on (ON state):

Switching the APD on and off at the device

To switch off the APD function directly at the device, press and hold the POWER button (1) for 5 seconds.
→ The front LED (2) briefly flashes red three times.
To switch the APD function back on directly at the device, press and hold the POWER button (1) again for 5 seconds.
→ The front LED (2) briefly flashes green three times.

Switching the APD on and off with the remote control

To switch off the APD function with the remote control, press the (RESUME) button.

→ The front LED (2) briefly flashes red three times to confirm.

To switch the APD function back on with the remote control, press the (RESUME) button again.

→ The front LED (2) briefly flashes green three times.

Switching the APD on and off via BurLink

Switching the APD on and off via BurLink is described in the section “BurLink”.

REMOTE

The remote connection allows you to switch your Burmester devices on or off remotely.

If you connect the REMOTE OUT (9) jack of the 216 to the corresponding REMOTE IN jack on a Burmester device, you will be able to switch this on and off remotely when switching the 216 on and off. In this operating mode, the 216 takes over the master function.

If you connect the REMOTE IN (8) jack of the 216 to the corresponding REMOTE OUT jack on a Burmester device, you will be able to switch the 216 on and off remotely when switching the device in question on and off. In this operating mode, the 216 is relegated to the slave function.

BURLINK

Control systems such as PC, CRESTRON®, Nevo etc. can be connected to the BurLink connection. These allow convenient control of your entire system, e.g. via an individually programmable touch panel.

The BurLink interface can be operated via the 9-pin D-SUB jack (RS-232). RS-232 configuration: 9600 Baud, 8 bit, parity: none, 1 stop bit, no hardware handshake.


The possible commands for operating the 216 are listed below. The commands must be sent in capital letters. All BURLINK commands must end with CR or \$0d.

TYPE	Device type
VERSION	Firmware version
SNR	Serial number
POWOFF	Switching off the device
POWON	Switching on the device
APD	Switching Auto Power Down on/off
IR	Switching the infrared sensor on/off
INFO	Output of TYPE, VERSION, SNR, IR status and device status (device status: STBY: NOT ON!, ON: APD: ONSTATUS, ERROR: ERRTYPE)

Error indication and troubleshooting

The 216 power amplifier is equipped with extensive protection circuits that protect it and the connected loudspeakers from damage in the event of a fault.

The protective circuits of the 216 react to various errors. If an error occurs, this is indicated by the LED (2) on the front.

The LED flashes orange in the event of an error.  The music playback is interrupted.

Troubleshooting of the following errors can be carried out by the user:

OVERVOLTAGE AT THE OUTPUT DUE TO SHORT CIRCUIT IN THE WIRING

To reset the protection function:

1. Switch off the 216 completely by setting the power switch (6) on the back of the device to OFF position.
2. Check the wiring between the power amplifier and the loudspeakers and correct any errors:
 - Make sure that there is firm contact between all connections.
 - The positive and negative connections of the loudspeaker cables must not touch each other under any circumstances.
 - Make sure that no conductive parts of the loudspeaker wiring get into contact with the housing of the 216.
 - For bi-amp mode, make sure that the bi-amp jumpers of your loudspeakers have been removed.
3. Switch the 216 back on with the power switch (6) and press the POWER button (1) on the front of the device.

OVERHEATING

If the permissible operating temperature in the 216 is exceeded, the protective circuit responds.

Causes for excessive temperature in the 216 may include:

- Overloading the device by playing music at a very high sound pressure level for a long period of time
- Room temperature too high ($> 30^{\circ}\text{C}$)
- Insufficient ventilation of the device

To reset the protection function:

1. Switch off the 216 completely by setting the power switch (6) on the back of the device to OFF position.
2. Wait until the device has cooled down (approx. 30 minutes).
3. If necessary, ensure a lower room temperature and a free placement of the device.
4. Switch the 216 back on with the power switch (6) and press the POWER button (1) on the front of the device.

Only switch on the device if you are sure that your preamplifier is set to a low volume.

Avoid listening at high volume levels for long periods of time.

OFFSET ERROR (DC VOLTAGE AT INPUT)

With preamplifiers and other source devices, DC voltage may be present at the output. To prevent this from damaging your loudspeakers, the 216 has active regulation that can compensate for the DC voltage of source devices up to a certain level. If this DC voltage becomes too high, the 216 switches off.

To reset the protection function:

- 1. Switch off the 216 completely by setting the power switch (6) on the back of the device to OFF position.
- 2. Replace your source device and have it checked by your dealer.
- 3. After rewiring your components, switch on the 216 with the power switch (6) and press the POWER button (1) on the front of the device.

Only switch on the device if you are sure that your preamplifier is set to a low volume.

ERROR INDICATION VIA BURLINK

The errors described can be read out separately for both channels via the BurLink interface on the device:

Overvoltage at the output (due to short circuit in the wiring):	"END_OVERCURR:ERROR_R" or "END_OVERCURR:ERROR_L"
Overheating:	"END_TEMP:ERROR_R" or "END_TEMP:ERROR_L"
Offset error:	"END_OFFSET:ERROR_R" or "END_OFFSET:ERROR_L"

If the 216 does not return to normal operating mode after the measures described above, there are other causes. Switch off the device and disconnect it from the power supply by pulling out the power plug. Please contact your dealer.

Warranty

We at Burmester have crafted a product that meets the highest standards.

Every detail is carefully thought out and consciously conceptualised. All used components and materials are handpicked, tested and incorporated by us that the best achievable product quality and a long service life are ensured. We hereby guarantee that your Burmester product has successfully passed an extensive checkout routine and has left our factory in perfect shape.

We provide a three-year warranty on your Burmester device. In order for the warranty to be valid, the device must have been connected and operated properly without overloading, the mechanical integrity of the device must not have been compromised, and the device must have been registered. The warranty expires if the device has been tampered with in any way or if parts of the housing, connections or terminals have been dismantled.

Please register your product with the serial number in the warranty certificate at: www.burmester.services/warranty and activate your warranty extension.

Care

Liquids and chemical agents can cause damage to the surface of the housing. Make sure that no liquid enters the device. Use the enclosed care set for cleaning the surfaces. Do not use chemical agents when cleaning.

Disposal

German law stipulates that this device and its accessories must not be disposed of with household waste (grey bin, yellow bin, compost bin, paper or glass). Instead, they must be handed in at municipal collection points or to voluntary recycling programmes.



Technical specifications of the 216

DEVICE TYPE	Two-channel power amplifier
DEVICE DIMENSIONS	
Width	496 mm
Height	191 mm
Depth*	479 mm
Weight	35 kg
*The dimensions do not include the lengths of the plugs used for connection.	
VOLTAGE RANGES	
Model 216-240	220 – 240 V~, 50/60 Hz
Model 216-120	110 – 120 V~, 50/60 Hz
Model 216-100	100 V~, 50/60 Hz
FUSES	
Model 216-240	F1: T 3.15A E or H
Model 216-120	F2: T 6.3A E or H
Model 216-100	F3: T 6.3A E or H
POWER CONSUMPTION OFF/STBY/ON	
Model 216-240	0.07 W/0.46 W/48 W
POWER CONSUMPTION WHEN MAX	
Model 216-240	1,200 W
Model 216-120	1,100 W
Model 216-100	1,100 W
POWER OUTPUT**	
POWER OUTPUT IN STEREO (IEC 62368) per channel:	
2 Ω	245 W
4 Ω	165 W
8 Ω	100 W

PULSE POWER IN STEREO (CEA) PER CHANNEL:

2 Ω	360 W
4 Ω	215 W
8 Ω	115 W

POWER OUTPUT IN MONO (IEC 62368-1):

4 Ω	490 W
8 Ω	325 W

PULSE POWER IN MONO (CEA):

4 Ω	725 W
8 Ω	410 W

**Power output measured with model 216-240 at 230 V, 50 Hz

Damping factor (100 Hz/4 Ω)	> 1,500
Amplification Stereo/Mono	31.8 dB/37.8 dB
Input resistance sym/asym	+++1.9 kOhm/12 kOhm
Input sensitivity (1 % THD+N, 4 Ω)	770 mV
Power frequency response (-3 dB, 1/8 Power rating, 4 Ω)	< 5 Hz - > 180 kHz
THD+N (1 kHz/50 W/4 Ω)	< 0.008 %
SNR (unweighted, 1 kHz, at rated power/ 4 Ω/ 20 kHz)	> 116 dB

Subject to technical changes without notice



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BURMESTER HOME AUDIO GMBH

Wilhelm-Kabus-Straße 47
10829 Berlin
Germany

www.burmester.de