

Burmester

OWNER'S MANUAL

032 INTEGRATED AMPLIFIER



CLASSIC LINE

Dear Audiophile,

Thank you for choosing this Burmester audio component. We sincerely appreciate your trust in us.

You have purchased a unit which excels in musical fidelity and combines uncompromising manufacturing quality with technical innovation and the highest degree of operating flexibility.

We recommend reading this user manual at least once in its entirety before initial operation. This will enable you to make full use of all capabilities of this outstanding audiophile instrument. Should you have any further questions, please contact your dealer or us directly.

You decide if we meet the demands of producing high-end components. We offer an additional service which also demonstrates high-end quality.

Talk to us about your special requests, even if they seem out of the ordinary. We happily accept technically reasonable challenges.

Enjoy your enhanced listening pleasure.

Your Burmester Team

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UNPACKING AND SETTING UP

CAUTION: The integrated amplifier 032 is very heavy. To avoid injury during unpacking and set-up, this should only be done by persons who are accustomed to handling such weights.

The integrated amplifier 032 is shipped inside a plastic protective cover. Make sure that children do not play with it to avoid the danger of suffocation.

Unpacking

To avoid damaging the housing, please do not use pointed or sharp tools to open the box. Please make sure that the content of the box is complete. If something is missing or you notice any damage while unpacking, do not hook up the unit. Instead, contact your authorized dealer.

Content of box

The box should contain the following:

- 1 Integrated amplifier 032
- 1 AC power cord
- 1 remote control 067
- 1 owner's manual

Packaging

We recommend keeping the original packing in case the unit needs to be shipped in the future.

Setting up

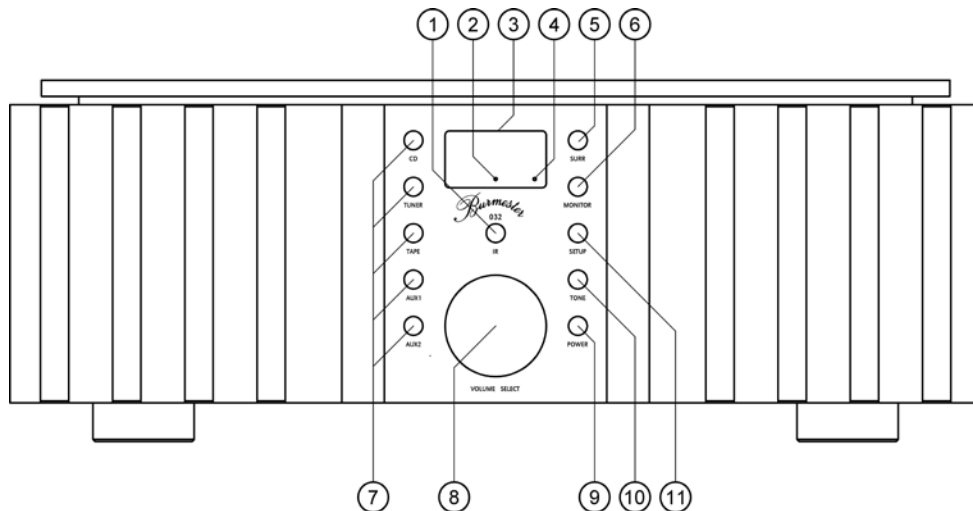
Carefully remove the unit from its packaging and set it up in an appropriate location. To protect the 032 from overheating make sure that the location offers sufficient air circulation around the unit. Also, avoid excessive exposure to sun, dust and humidity.

Ventilation ducts and openings in the housing serve to keep the unit cool. They must not be covered up with magazines, table cloth, curtains etc.

If the 032 has to be operated in an extremely warm environment it may be necessary to supply additional ventilation. Avoid operating the unit in an excessively humid environment like bath rooms etc.

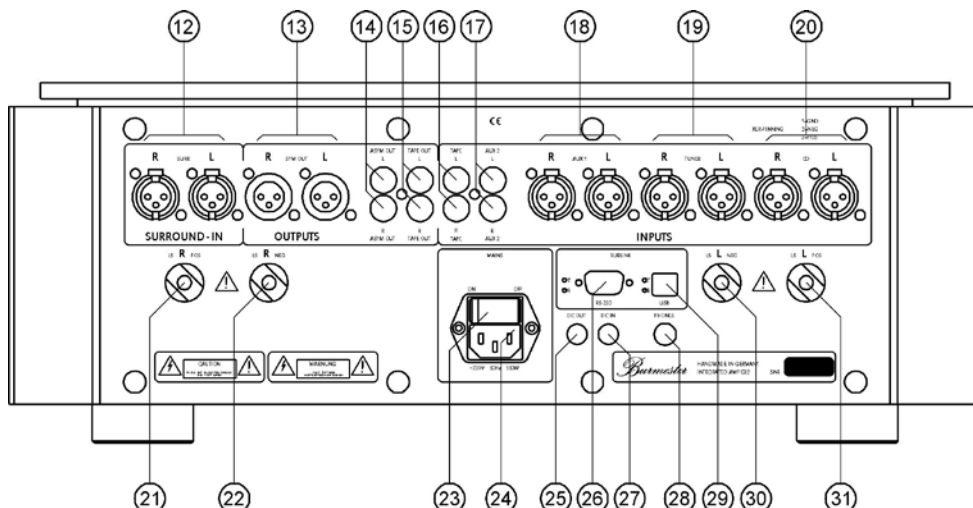
FUNCTIONAL OVERVIEW

FRONT PANEL



- | | |
|---|---|
| (1) IR receiver | (7) INPUT selector buttons |
| (2) Stand-by LED shows stand-by mode | (8) VOLUME knob |
| (3) Display | (9) POWER button for turning the unit on or off |
| (4) TONE LED illuminates when tone control is activated | (10) TONE button for activating/deactivating the tone control or the tone control setup |
| (5) INPUT button for SURROUND input | (11) SETUP button for configuring the 032 |
| (6) MONITOR button for tape monitoring | |

REAR PANEL



- | | |
|--|---|
| (12) SURROUND input balanced | (21) Loudspeaker terminal right, positive |
| (13) PREAMP output balanced | (22) Loudspeaker terminal right, negative |
| (14) PREAMP output unbalanced | (23) AC mains switch |
| (15) TAPE output unbalanced, for analog recording device | (24) AC mains terminal |
| (16) TAPE input unbalanced | (25) REMOTE output |
| (17) AUX2 input unbalanced | (26) BURLINK interface RS-232 with check LEDs |
| (18) AUX1 input balanced | (27) REMOTE input |
| (19) TUNER input balanced | (28) Headphones jack |
| (20) CD input balanced | (29) BURLINK interface USB with check LEDs |
| | (30) Loudspeaker terminal left, negative |
| | (31) Loudspeaker terminal left, positive |

CONNECTIONS

All terminals for hook up are located on the rear panel. While connecting the amplifier all components of the music system must be turned off.

CAUTION: Before connecting the unit please check if the input voltage of the 032 is equal to the local voltage of your wall outlet. Make sure the ground lead in your power outlet is working correctly. A missing or faulty ground is extremely dangerous!

In case of doubt contact a licensed electrician.

AC mains terminal Make sure the **AC mains switch (23)** is set to OFF. Connect the appliance connector of the power cord to the **AC mains terminal (24)**. Then plug the power cord into the wall outlet.

Inputs To connect source components like CD-Player, FM-Tuner, Tape deck etc. the amplifier provides three **balanced inputs (XLR)** named **CD (20)**, **TUNER (19)** and **AUX1 (18)** and two **unbalanced inputs (RCA)** named **AUX2 (17)** and **TAPE (16)**. For the best sound we recommend using the balanced inputs whenever possible.
The pinning of the balanced inputs is: **PIN1=GND, PIN2=NEG, PIN3=POS**.
NOTICE: If necessary, the balanced inputs can be converted to unbalanced mode by using XLR-RCA adapter plugs. These adapter plugs are available on request at your local dealer.

SURROUND input This input allows the easy integration of surround sound components into an existing two-channel hifi system.
To do this, the two front channels (right front / left front) of a surround sound processor or decoder must be connected to the input **SURROUND - IN (12)**. In this configuration the signal is sent directly to the power amp stages of the 032, bypassing tone control and volume control. Volume and other signal settings are controlled by the connected surround sound processor or decoder.
CAUTION: Connect only components with their own volume control to the SURROUND input!
The pinning of the SURROUND input is: **PIN1=GND, PIN2=NEG, PIN3=POS**.
NOTICE: If necessary, the balanced SURROUND input can be converted to unbalanced mode by using XLR-RCA adapter plugs. These adapter plugs are available on request at your local dealer.

Loudspeaker Terminals The speaker cables are connected to the binding posts of the **loudspeaker terminals (21), (22) and (30), (31)**.
The **loudspeaker terminal R POS (21)** must be connected to the positive binding post of the right loudspeaker (commonly marked in red), the **loudspeaker terminal R NEG (22)** must be connected to the negative binding post of the right loudspeaker (commonly marked in black or blue).
Correspondingly, the left loudspeaker must be hooked up to the terminals **L POS (31)** and **L NEG (30)**.

To ensure optimal signal flow we recommend terminating the speaker cables with copper spade lugs.

CAUTION: Under full load an integrated amplifier like the 032 can produce voltages at the speaker terminals that are high enough to be dangerous. Therefore, never touch the terminals while operating the unit.

Headphones jack The **headphones jack PHONES (28)** requires headphones with a 6,3mm stereo plug and an impedance of 100Ω and more. When headphones are connected, the speakers are switched off automatically and the volume level is reduced. When pulling the phones plug from the jack the speakers are being switched back on and the volume level is also lowered.

TAPE output	<p>The output terminal OUTPUT TAPE (15) must be connected to the recording input of the taping device that has been hooked up with its outputs to the INPUT TAPE (16). The tape out terminal provides the signal of the selected input CD, TUNER, AUX1 or AUX2 but not the signals from the inputs TAPE and SURROUND. Volume and tone control have no influence to the TAPE OUT signal.</p>
PREAMP outputs	<p>For additional connection of power amps or active loudspeakers the 051 provides two pairs of output jacks: OUTPUT BALANCED (30) and OUTPUT UNBAL(anced) (31). These outputs provides the signal of the selected input CD, TUNER, AUX1, AUX2 or TAPE but not the signals of the input SURROUND. The pinning of the balanced output is: PIN1=GND, PIN2=NEG, PIN3=POS. Volume and tone control have no influence to the TAPE OUT signal.</p>
REMOTE	<p>Connecting DC OUT (25) to the corresponding DC IN-jack of another BURMESTER-unit offers to switch on or off this other unit simultaneous by the 032. In this case, 032 has the master function. Connecting DC IN (27) to the corresponding DC OUT-jack of another BURMESTER-unit offers to switch on or off the 032 simultaneous by the other unit. In this case, 032 has the slave function.</p>
BURLINK	<p>To the BURmester-LINK interface plugs (26), (29) a computer system like PC, CRESTRON®, Nevo e.g. can be connected to the integrated amplifier 032. The computer system allows a comfortable control of your hifi system using an individual programmable touch panel for example. With the LEDs beside the plugs named T and R (Transmit and Receive) you can check whether data exchange is working.</p>

OPERATING CONTROLS

With the exception of the AC mains switch all operating controls are located on the front panel. To operate the unit it must be connected to the AC supply.

AC mains switch	The AC mains switch (19) which turns AC power to the unit on and off is located on the rear panel above the AC mains terminal. By switching to the ON position the transformer is powered up and the unit is in stand-by mode. The stand-by mode is shown by the lighting of the Stand-by LED (2) .
POWER button	<p>The POWER button (9) turns the unit on and off provided the AC mains switch is in the ON position.</p> <p>When the amp is ready for operation the alphanumeric display (3) will light up.</p> <p>In stand-by mode only the stand-by LED (2) lights up.</p> <p>After switching on the 032, the safety monitoring system takes a few seconds to check all functions. The speaker terminals and preamp outputs are enabled only, if no errors are detected.</p> <p>CAUTION: Always use the POWER button (9) first to switch the unit off, before setting the AC mains switch (23) to OFF.</p>
VOLUME knob	<p>The VOLUME knob (8) controls the volume level in 61 steps from 00 (off) to 60 (full volume). If the VOLUME knob is turned slowly, the volume changes step by step. If rotated quickly, the volume changes in larger increments. The display indicates the selected volume level.</p> <p>The VOLUME knob also controls the functions in the SETUP menu.</p>
INPUT select	Inputs are selected by pressing the respective one of the input select buttons (7) . The display (3) indicates the selection.
SURROUND input	Pressing the button SURR(ound) (5) activates the input SURROUND IN (12) . The signal from the SURROUND input is routed directly to the power amp stages, bypassing tone control and volume control.
MONITOR function	<p>Pressing the button labeled MONITOR (15) blocks the direct signal path during recording and switches to replaying the just recorded signal. When the monitor function is activated, the display will add a -M to the selected source name.</p> <p>The inputs TAPE and SURROUND have no monitor function.</p>

Adjusting the tone control

The tone control allows increasing or decreasing bass and treble output in 2dB steps from plus to minus 14dB and an adjustment of the stereo balance in 1dB steps up to -60dB.

Pressing and holding the button labeled **TONE (10)** switches into the tone control mode. The menu items treble, bass and balance can be called up sequentially by briefly pressing the TONE button.

TREBLE ADJUSTMENT: The display shows **TRBL**
Use the VOLUME knob (8) to adjust the treble between +14dB and -14dB.

BASS ADJUSTMENT: The display shows **BASS**
Use the VOLUME knob (8) to adjust the bass between +14dB and -14dB.

BALANCE ADJUSTMENT: The display shows **BAL**
Use the VOLUME knob (8) to adjust the stereo balance.
The BALANCE function lowers the volume in the left or right channel in 60 steps up to -60dB. An arrow in the display indicates, if the volume level of the left or the right channel is being changed.

The tone control mode is automatically terminated after 10 seconds without any adjustment. The selected settings are retained when leaving the tone control mode.

Activating the Tone control

In normal operation the signal path by-passes the tone control completely.
To switch the tone control into the signal path, press the button **TONE (10)** briefly. The **TONE LED (4)** illuminates, when the tone control is activated.
To switch the tone control off, press the button **TONE (10)** briefly again and the **TONE LED (4)** will go out.

REMOTE CONTROL

Equipped as standard is the 067 remote control. By definition the buttons **POWER, TUNER, TAPE, SURR, AUX**, have the same functions as the corresponding control buttons on the front panel of the amplifier 032.

By repeatedly pressing the **AUX** key you can change between the inputs AUX1 and AUX2. With the button **DISC** the corresponding CD input may be selected.

The SETUP may be entered by pressing the **MENU** button.

Pushing the **DIM** key on the new remote control, varies the brightness of the display in four steps between "max. brightness" to "off".

If brightness is selected to "off", the display will light up only when any controls are used to change settings. After a few seconds it automatically switches off again.

The buttons **VOLUME +** and **VOLUME -** adjust the volume control normally. When the setup menu is activated, you can change the settings of the selected menu item with the **VOLUME** buttons.

All other keys on the remote control have no functions with respect to the 032.

THE SETUP MENU

The setup menu allows the easy programming of certain basic settings of the integrated amplifier 032.

- Activating setup** Press the button **SETUP (11)** on the front panel or press the **MENU** button on the remote control.
- Select menu item** The different items of the setup menu are selected in the sequence specified below by repeatedly pressing the **SETUP** or **MENU** button.
The activated menu item is indicated on the left side of the **display (3)**.
- Change settings** To change the setting of an activated menu item, rotate the **VOLUME knob (8)** to the left to lower the set value or to the right to increase it. To change the settings you can also use the **VOLUME** buttons on the remote control.
The selected value of the menu item is indicated on the right side of the **display (3)**.
- Deactivating setup** The setup menu is closed automatically after 10 seconds, when no adjustment has been made.

Menu items The following table lists all items that can be adjusted using the setup menu. The factory default settings have been underlined.

MENU ITEM	DESCRIPTION	DISPLAY	VALUE
Input level CD	Input level adjustment for input CD	L-CD	-9 bis <u>0</u> bis +9
Input level TUNER	Input level adjustment for input TUNER	L-TU	-9 bis <u>0</u> bis +9
Input level TAPE	Input level adjustment for input TAPE	L-TP	-9 bis <u>0</u> bis +9
Input level AUX1	Input level adjustment for input AUX1	L-A1	-9 bis <u>0</u> bis +9
Input level AUX2	Input level adjustment for input AUX2	L-A2	-9 bis <u>0</u> bis +9
Volume	Selecting initial volume (L=Last volume)	VOL	0 bis <u>5</u> , 10, 15, 20, L
Output amplification	Power amplification high (HI) or low (LO)	PA	<u>HI</u> / LO

Input level The input level adjustment feature serves to avoid big jumps in volume, when switching between signal sources with different output levels.

Volume This menu item allows you to preset the volume level, when the 032 is switched on. The setting **L** represents LAST, which means that when you switch on the 032, it starts at the same volume level it was last playing before it was switched off. The maximum value is limited to 30.

Output amplification To achieve the best match with your loudspeakers, the output level of the amplification stages may be adjusted. **HI** stands for high amplification, **LO** accordingly for low amplification. When switching between these settings, the speaker relays are briefly switched off to avoid malfunctioning.

ERROR PROTECTION

The integrated amplifier 032 offers a sophisticated error mounting system, which protects the unit as well as the connected loudspeakers from damage, should certain errors occur.

If any of the following errors occurs, the loudspeaker relays are automatically switched off and the type of error is indicated in the **display (3)**. After the cause for the error has ceased, the loudspeakers will automatically come back on.

Overheating

If the 032 under full power exceeds the maximum allowable operating temperature, the protection system acts as follows:

- The amplifier is muted and the speaker outputs are switched off
- The display shows **TEMP**
- The volume is automatically reduced by four steps

If the 032 returns to below the maximum allowable temperature within three minutes, the speaker outputs are automatically switched back on.

If the 032 does not cool down to below the maximum allowable temperature within three minutes, the unit switches automatically into stand-by mode. The display continues to indicate **TEMP** and the stand-by LED also illuminates. Please leave the 032 turned off for a while, allowing it to cool down.

Overload/DC offset

If high currents overload the power transistors or DC current is detected at the outputs, the protection system of the 032 acts as follow:

- The amplifier is muted and the speaker outputs are switched off
- The display shows **OF/CU**
- Automatic lowering of volume level until the problem is resolved

If lowering the volume resolves the problem, the speaker outputs are automatically switched back on.

If the volume is lowered all the way to **0**, the 032 switches automatically into stand-by mode. The display continues to show **OF/CU** but the stand-by LED also illuminates. In this case, use the **AC mains switch (24)** to switch the unit off and check all connections. If you cannot detect an external problem, please contact your dealer.

BURLINK

CONNECTIONS

Connecting to the BURLINK interface can be done either with the 9 pin D-SUB connector (RS-232) or with the USB 2.0 connector.

RS-232 configuration: 9600Baud, 8bit, parity: none, 1 stop bit, no hardware handshake

A USB device driver needs to be installed when using the USB 2.0 connector. System requirements for using the USB software are either **WINDOWS 2000** or **WINDOWS XP** operating system.

COMMANDS

Following are listed the possible commands to control the integrated amplifier 032. All commands needs to be sent in capital letters finished with a "carriage return" \r .

POWON\r	switches the unit on
POWOFF\r	switches the unit to standby mode
CD\r	activates the CD input
TUNER\r	activates the TUNER input
AUX\r	changes between inputs AUX1 and AUX2
AUX1\r	activates the AUX1 input
AUX2\r	activates the AUX2 input
TAPE\r	activates the TAPE input
SURR\r	activates the SURROUND input
VOLUP\r	increases the volume for one step
VOLDN\r	decreases the volume for one step
MONITOR\r	switches the monitor loop on or off
MONITORON\r	switches the monitor loop on
MONITOROFF\r	switches the monitor loop off
TONE\r	switches the tone control on or off
TONEON\r	switches the tone control on
TONEOFF\r	switches the tone control off
BASSUP\r	increases the bass volume for one step (2dB)
BASSDN\r	decreases the bass volume for one step (2dB)
TREBLEUP\r	increases the treble volume for one step (2dB)
TREBLEDN\r	decreases the treble volume for one step (2dB)
BALANCEL\r	lowers the volume of the right channel for one step (1dB)
BALANCER\r	lowers the volume of the left channel for one step (1dB)
DIM0\r	switches the display brightness to maximum
DIM1\r	switches the display brightness to middle
DIM2\r	switches the display brightness to low
DIM3\r	switches the display to off mode
DIM\r	switches the brightness step by step (0,1,2,3,0,1,2....)
TYPE\r	shows the type of the unit
VERSION\r	shows the software version of the unit

GENERAL INSTRUCTIONS

Operating temperature	An operating temperature that is too high or too low may cause malfunctioning. We therefore recommend letting the 032 sit for a while after unpacking and before connecting and operating it.
Terminals	The pins of the connecting terminals on the back panel should not be touched by fingers under any circumstances. Static discharges may damage the electronic circuitry inside the unit.
IR receiver	The IR receiver (1) receives signals from the BURMESTER remote control and must not be covered up by objects.
Heat development	Be careful when touching the housing – it may get quite warm during operation.
Reset	If the unit does not react when pressing the control keys on the front it may be reset to normal operation by switching it off and back on using the AC mains switch in the back.
Lightening strikes	During the summer months, malfunctions often occur due to voltage spikes in the power lines after lightning strikes. Completely unplugging the power cord offers the only effective protection. Merely switching the 032 off does not suffice since voltage spikes are able to arc over separated contacts.
Interconnects	We supply custom-made balanced as well as unbalanced interconnect cables and speaker cables of any length to ensure highest-quality signal paths for our components. The impedance of our cables is ideally matched to all BURMESTER components. For the cleanest power supply we recommend our triple-shielded power cord BURMESTER-POWER.
Fuses	The fuses are located inside the unit and should be changed only by a qualified technician.
Voltage	Check before operating the 032 to see if the voltage setting shown on the back panel below the AC mains input conforms to voltage of your household power supply. Any change should only be done by an expert.
Warranty	<p>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, the mechanical integrity of the device must not have been compromised, and the device must have been registered. The warranty will expire if the device is tampered with in any way or if parts of the housing are dismantled.</p> <p>Please register your product with the serial number in the warranty certificate at www.burmester.services/warranty and activate your warranty extension.</p>
Care	Never clean the housing with a wet cloth or chemical cleaning agent. Always make sure that no liquid gets into the housing.
CAUTION	Before opening the housing or changing the fuses always unplug the unit from the wall outlet. DANGER OF ELECTRIC SHOCK!

TECHNICAL SPECIFICATIONS

Dimensions	Width x Height x Depth	482 x 179 x 482 mm
		(19.0 x 7.5 x 19.0 inches)
Weight		approx. 28 kg
		(approx. 61,7 lbs)
Mains voltage and fuses	Model 032-100: 100-120 V 50/60 Hz	2xT500mA E/H, 2x T6,3A E/H
	Model 032-120: 100-120 V 50/60 Hz	2xT500mA E/H, 2x T6,3A E/H
	Model 032-240: 200-240 V 50/60 Hz	2xT250mA E/H, 2x T3,15A E/H
Power consumption	ON	550 W
	STBY (Mains switch ON)	approx. 3 W

PLEASE NOTE: The dimensions do not include the length of binding posts and the space needed for plugs of interconnect cables.

The technical data and design of this product are subject to change without notice.

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Version 2-5_2212