

Product Information Classic Line Integrated Amplifier 032



The integrated amplifier 032 comes from the same family of amplifiers as the 909, 911 and 956 MK 2, which have won wide international acclaim. As a derivative from the power amp 956 MK 2 and the pre-amplifier 935 the 032 closes a gap in our Basic model line. Like all amplifiers from the Burmester Company the 032 sports balanced design front to back and is completely DC coupled without distorting capacitors in the signal path. The external heat sinks of the 032 have the same unmistakable Burmester design pedigree found in all our other large amplifiers.

The chrome plate with the controls has been set into the front of the heat sinks. A solid middle plate has been machined from 25 mm thick brass. It surrounds the display and insulates it effectively from all external influence. It also prevents unwanted interferences from radiating to the signal-carrying parts of the amplifier. The big solid tuning knob raises and lowers the volume in both channels identically via an incremental control which is far superior to conventional potentiometers.

Like all Burmester amplifiers the 032 has to pass a number of stringent tests. Even though we use only the very best component parts, we measure and select pairs of every part by computer. After they have been assembled into modules each module is checked in a reference setup.

After rough assembly each unit is subjected to a battery of app. 300 computer-aided tests to ensure its compliance with the reference prototype. After that the unit is burnt in at nominal load for a week, after which it is tested again. Only if the second set of measurements is identical to the first will the unit be released for final assembly. Only by this arduous process can we make sure that each 032 fulfills our promise of high reliability. The final check before packing and shipping is a thorough listening test.

THE CONCEPT

The O32 offers balanced circuit design and is completely DC coupled. There are no distorting coupling capacitors in the signal path. An intelligent protection circuit outside of the signal path monitors the working condition for overheating, DC offset and overloading.

A special feature of the O32 is its extremely high damping factor. This high damping factor in connection with the capability to quickly deliver very large currents (rise time at 4Ω is only $1.5 \mu\text{s}$) give the amp a wide response and the ability to effortlessly control virtually any loudspeaker over its full frequency range. With its mighty 650 VA power supply the O32 is able to deliver continuous high currents and thus drive speakers with low impedance and complex loads. The large external heat sinks in typical Burmester design provide optimal cooling. The frequency response is practically load-independent. The sound of the O32 is characterized by excellent spatial resolution, natural musical warmth and negligible distortion.

The transistors of the output stages are connected to the oversized heat sinks at the housing sides via a massive block of copper which guarantees the best heat abortion and dissipation. The driver stages, however, are located on a separate internal heat sink. This keeps wide temperature fluctuations of the power stage heat sinks from affecting the operating points of the driver stages.

Internal wiring for the power supply of the amplification stages and the signal transfer to the speaker terminals of the O32 consists of 10 mm^2 high-purity copper wire. This makes sure that the high currents of the power amplifier reach the massive output binding posts without loss. For the signal-carrying conductors we consciously did not use copper rails, which have become all the rage recently, to avoid for example any unwanted micro phonic effects.

THE SOUND

The sound of the O32 has been highly praised for its warm musicality yet detailed imaging. The O32 is second to none in its capability to draw minute musical details from the world's best speakers even at very high volume levels.

HOME THEATER

The O32 is already prepped for future home theater applications. It offers a home theater through-put circuit which bypasses the preamp-section and routes signals directly to the power amp. In the future, this through-put can also be controlled by the new Burmester Link interface.

VARIOUS CONNECTIONS AND SETTINGS

The 032 offers a great variety of hook-ups. A PRE OUT terminal allows it to drive another power amp or connect to other audio setups to enable a central control of volume levels. Intelligent control circuits offer a plethora of programmable settings:

Balance in 120 steps (!)

Tone controls for treble and bass (can be completely switched off)

Balance (can be completely switched off)

Wake-up volume: initial volume programmable between 0 and max. 20 or at the last volume setting before shutting down

Adjustment of individual inputs between +/- 9dB

Master and Link on/off function for home theater applications

Display on/off

SPECIAL FEATURES

Balanced design throughout as in all Burmester components

Input stages in proprietary X-Amp technology (Class A)

Low overall negative feedback

Completely DC-coupled without distorting capacitors in the signal path

Oversized power supply delivers high current

Effortless control of any speaker due to the high damping factor over the entire range, even at high frequencies

Stable at any load over the entire frequency range

Massive binding posts for speaker cables (use only spade lugs!)

Remote on/off switching in connection with Burmester pre-amps and D/A converters with variable output (remote control current: 10V DC)

Integrated protection circuit outside of the signal path monitors the 032 during operation for overheating, DC offset and overloading

5 inputs, three of which are balanced

Head phones jack at the rear panel

Tone controls (can be switched off)

Home theater pass-through

Adjustable pre-sets: Input sensitivity, output level, wake-up volume,

Includes hand-held metal remote control

Pre-amplifier output

TECHNICAL SPECIFICATIONS

Dimensions (WxHxD):	482 mm x 216 mm x 482 mm
Weight:	app. 36 kg
Rated power output:	Stereo: 2 x 171 W (4Ω)
Continuous peak current:	30 A
Dampingfactor:	>1800
Signal-to-noise ratio:	>81 dB
Input sensitivity:	adjustable
Frequency response:	0-200kHz (-3dB)
4 selected power transistors per channel	
Rise time (stereo/mono):	1,4 µs an 4/8 Ω load 1,9 µs an 1 Ω load
Oversized power supply with 90.000 µF filter capacity and 600 VA toroidal transformer.	

AVAILABLE FINISHES

Standard finish with chrome bracket, engraved triangular chrome name plate, housing in silver anodized. Custom finishes upon request.