



069 CD Player

The Reference Line CD player 069 combines brand-new technologies with the well-established belt-drive-system, invented by Burmester. The result is an extraordinary sounding CD player, which demonstrates the peak of what can be realized on the highest possible level.

Burmester Audiosysteme invented the belt-drive CD player in 1990 and introduced it during the Berlin Consumer Electronics Show in 1991. Just like analogue record players, the belt-drive CD player offers enhanced decoupling of the record medium from the drive unit. The rotation of the CD is held completely even without sound distorting vibrations or staggering. Therefore, the CD is read out with considerable higher precision and is not afflicted with electronic jitter.

Highlights 069 CD

The 069 CD Player has three digital inputs, which allow upgrading of further external digital sources via the integrated DA-converter. Before they are converted, all digital signals, including the signals of the internal drive, are upsampled to 96/192 kHz/24bit. In addition to that, the 069 is fully balanced and completely DC-coupled without distorting capacitors in the signal path.

Due to its three digital inputs, one analogue input, all having a selectable volume control, the 069 CD Player may be used as preamplifier as well. The 069 remembers compiled programs out of 99 CDs and recognizes them when the CD is inserted again. The included MMI-slot allows expanding the number of in- or outputs and, just like the modular DA-converter-concept, the integration of further technologies. The entire unit

can be controlled via the BurLink interface by using home automation systems like Crestron™ or AMX™.

Almost all available CD transports on the world market use direct-drive systems, i.e. CD platter, spindle and motor are a firmly fixed unit. Furthermore, most motors are cheesy little things running on cheap bearings and cannot guarantee a smooth rotation. Motor cogging as well as vibrations and mechanical resonance are transmitted directly to the platter and, hence, to the CD. This renders a faultless sampling by the laser pickup impossible. As a result, small parts of the signal are lost. These are the parts that the human ear translates as spatial image, focus and musical accuracy. Therefore, digital playback was criticized as “two-dimensional” and “synthetic.”

Since, for obvious reasons, direct-drive systems never made it in analog turntables, in 1990 Dieter Burmester

developed the belt-drive principle for CD transports. In 1991 with the 916 CD Player he designed the first belt-driven CD-transport. Since 1995 the belt-drive mechanisms are now produced in house by Burmester.

The advantage of a belt-driven transport is the complete decoupling of the digital pickup from interferences of the motor drive. The CD platter of the 069 sits on a 4 mm-thick spindle which rotates in a precision bearing with no more than three thousands of a millimeter play. This guarantees an absolutely smooth rotation without cogging, bearing play or vibrations and resonance. Hence, the sampling process is not subject to any mechanical jitter.

The drive rests firmly in a double-chamber housing system to further decouple it from mechanical and acoustical interferences such as footfall and sound waves from the speakers. The housing of the drive

unit is made of 10 mm-thick aluminum plates and weighs 58.5 lbs. To further increase the interference immunity of the 069 CD Player, the spike feet of the outer housing rest on a carbon fiber suspension as part of its own base.

In contrast to analog record players which rotate during playback in constant angular velocity, the CD must rotate in constant line velocity. That means that in order to obtain a steady data stream during the sampling process, the rotational speed of the CD has to be continually reduced since the circumference of the ‘grooves’ that the pickup traces increases from the inside to the outside.

Ensuring the correct rotational speed at any point of the sampling process has been the greatest challenge in designing a belt-driven CD transport. It was met by developing a highly sophisticated microprocessor-based control unit. Its calculations includes all variables

of the drive unit such as motor, belt, precision spindle and stabilizer and guarantees the absolutely smooth rotation of the CD. Besides the low torque motor, a top Swiss product manufactured to our specifications, the precision spindle and bearing are of a level of quality that no other standard CD transport approaches.





FEATURES

- Modular design makes the 069 future proof for new digital formats to come
- Burmester Reference Belt-drive CD transport is based on CD-2 PRO laser technology
- Mechanical belt-drive unit is handcrafted by Burmester
- Total interference immunity through heavy triple-chamber design and special housing base for additional mechanical decoupling.
- Almost air-tight and sound-proof closure of top-loading CD chamber by precision sliding cover plate
- Proprietary oscillator with minimal phase noise and high thermal stability located next to the SRC circuitry
- Remote control supplied as standard
- EMI (Electro Magnetic Interference)-suppression filters in every stage
- Standard Version in silver anodized
- Other finishes available on request
- 1 balanced analog XLR output (Stereo), volume level selectable between variable or fix
- 1 unbalanced analog RCA output (Stereo) with its own driving stage, volume level selectable between variable or fix
- 1 unbalanced analog RCA output (Stereo) with its own driving stage for analog recording, volume level is fix
- 1 unbalanced digital RCA output with 75W impedance
- 1 optical digital output (TOSLINK)
- All outputs have own driver stages and may be used simultaneously without loss of quality
- MMI slot for future extensions (inputs and outputs of virtually any kind)
- Entire unit can be controlled via BurmesterLink system by using all possible home automation systems like Creston™, AMX™, PC and others.

TECHNICAL SPECIFICATIONS

Weight	27 kg (59.9 lbs)
Width	450 mm (17.8")
Height	156 mm (6.2")
Depth	329,5 mm (13")
Drive	Belt-Drive, Top Loader
Digital inputs	2 RCA, 1 TOSLINK
Analog inputs	1 XLR
Digital outputs	1 RCA, 1 TOSLINK
Analog outputs	1 XLR, 2 RCA
MMI slot	yes
Preamp-function	yes
DAC usable for external sources	yes
Upsampling to 96 kHz/24 bit	yes
switchable to 192 kHz/24 bit	yes
Remote controlled	yes
BurLink	yes
Burmester X-Amp 2	yes
REMOTE INPUT / OUTPUT	1 / 1
Output impedance	130 Ω
Output voltage XLR/RCA	4V eff. / 2V eff.
Frequency Response	< 10 Hz - 48 kHz
Signal-to-noise ratio	> 112 dB
THD + N	< 0.0009 %

POWER SUPPLY

Weight	28 kg (61.7 lbs)
Width	450 mm (17.8")
Height	156 mm (6.2")
Depth	336 mm (13.3")

Technical modifications reserved.



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 REFERENCE LINE

The 069 CD Player is available with internal or external power supply in Reference Line housing. The external power supply comes with separated oversized toroidal transformer for digital and analog section.t.

Burmester Audiosysteme GmbH

Burmester Audiosysteme GmbH is one of the world's most renowned manufacturers in the field of high-end audio systems. The owner-managed company based in Berlin was founded in 1977 by Dieter Burmester. With a clear focus on home and automotive audio, Burmester maintains global collaborations with industry leaders in other industries (including: Mercedes-Benz, Porsche and the Königliche Porzellan Manufaktur Berlin, among others) and is a member of Meisterkreis Deutschland and the Initiative for German Manufactures.