

Manual for **BRINKMANN** Preamplifier CALVIN

Design :

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Legal regulation of the European Community :

This amplifier had been designed and tested according to the guidelines IEC55013 and IEC55020, and it meets the safety requirements IEC60065.

Informations for safety :

The preamplifier CALVIN is only to be used in dry rooms with an average temperature and is only allowed for 220-240V, 50Hz alternating current.

The power supply is only to be connected to sockets with

Please connect or disconnect only when the amplifier is not connected to the mains.

The amplifier is not switched off in the stand-by modus.

Always disconnect the amplifier from the mains when it is not used for a longer period of time (during holidays etc.)!

Never lift or remove the glass plate while the amplifier is connected to the mains!

Attention, dangerous voltage!

Repairs, modifications etc. are only to be carried out by the company **BRINKMANN** itself or by specially authorized workshops! Please allow some time before lifting the glass plate, so high voltages can reduce.

Always keep the amplifier away from wet, heat and open fire. Don't expose it to the blazing sun! Never place receptacles with fluids on the amplifier.

The amplifier is equipped with a ; to guarantee a flawless function please make sure to have a free space for air circulation measuring 30cm above the preamplifier and 10cm on each side. The heatsinks are never to be covered!

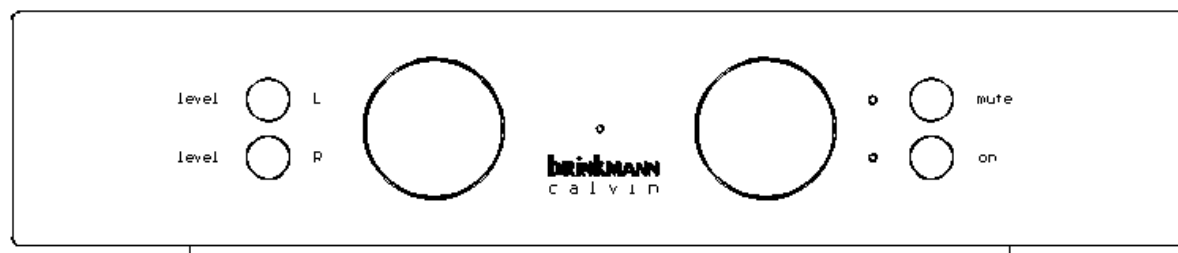
The amplifier can be cleaned with a dry cloth or a brush, wet cleaning can cause damages, always disconnect from the mains!

Technical information :

The **BRINKMANN** preamplifier CALVIN impresses with its puristic design, featuring only the minimum of Bedienelementen. The control panel includes left hand the level controls for the right and left channel, the input selector, in the middle a LED indicating power-on, right hand the volume control and a "mute" and "on-off" push button. The operations are to be made directly at the preamplifier, volume and "mute" may also be driven via remote control. The buffer stage for the tape recording output "rec" always carries the signal of the chosen input.

All inputs and outputs are locked while in the stand by mode ; the amplifier should be taken from the mains when it is not in use for a certain time.

The sensitivity of the phonoboard can be matched to the cartridge by a rotary switch.



Inputs and outputs :

five asymmetrical line-inputs, the input "lin1" can also be configured as a phono-input, a record-output, an output for the power amplifier asymmetrical and the connector for the external power supply.

All inputs, the rec-output and the asymmetrical output are Cynch-(RCA)-sockets.

Remote control :

The purchase of the CALVIN preamplifier includes the remote control. It features three push buttons for the functions (left to right) **volume down**, **mute** and **volume up**, for the volume and stand by (mute).

The sensor for the remote control is positioned beneath the glass plate in the front of the amplifier; for an impeccable function of the sensor it is essential to keep the glass plate clear of objects or immediately adjacent shelves etc. on top of the amplifier.

To change batteries, please unscrew the remote control at its back side, pull out the battery compartment and replace the empty batteries by two new ones of the type AA according to the illustration in the compartment. Please push the battery compartment completely back into the remote control until the cover can be closed again easily.

>Used batteries are not to be thrown into household waste but be disposed at special waste utilisation plants or collecting points according to the possibilities of the country in question.<

Adjustments :

The input selector switches the inputs. The selected input is indicated from top through the glass plate at the rim of the selector switch.

By pushing the button "on-off" the preamplifier is connected to the power supply via relays, the red LED turns off and the LED is on.

The button "mute" clears the inputs and outputs, the button is locked for the first two minutes after switching the preamplifier on.

To protect the power amplifiers and loudspeakers, the DC-offset at the outputs is measured and switches off the outputs when a certain level is exceeded.

The level controls allow the separate gain-adjustment of the lineamplifier for each channel in 0,5 dB-steps between 4...12 dB.

The optional phonoboard allows the adjustment of the input sensitivity in three stages:

1 = 2mV / 47k Ohm, **2** = 1mV / 600 Ohm, **3** = 0,5mV / 600 Ohm

Different impedances and sensitivities are possible by resoldering the correlated resistors.

Setup :

First all needed inputs and outputs should be plugged in, and the preamp connected to the power supply before this is connected to the mains. Be careful not to create a short circuit, because a (lasting) short circuit can lead to damages in the preamplifier.

In order to connect the preamplifier to the mains, the power supply has to be plugged into a mains-socket or a multiple plug with double poled power switch.

The mains-plug of the powercord has a red mark at one side, the pole of this side should be connected to the phase of the mains to get the best sound quality.

The LED at the front panel of the power supply starts to glow when the power supply of the preamplifier is connected to the mains. The power supply needs a minimum of current when the preamplifier is switched off, only the micro-controller of the preamplifier is still under current.

The preamplifier should be placed on its granite base as far as possible away from (magnetic , humming).

The granite base can be equipped with felt gliders or spikes to improve the setup.

some technical data :

Distortion / Intermodulation :	0,01 / 0,05	%
Signal to noise, linear :	90	dbA
Bandwith, linear :	DC... 250	kHz
max. output :	± 12	V
output resistance :	$< 0,1$	Ohm
input resistance linear :	20	kOhm
input sensitivity linear :	150	mV
input sensitivity phono :	as above	
span of level controls :	4... 12	dB
step of level controls :	0,5	dB

Casing : W x H x D	300 x 65 x 310	mm
Casing power supply :	120 x 80 x 160	mm
Weight with psu :	ca. 8	kg

Granit plate :	420 x 30 x 310	mm
Weight granit plate :	ca. 8	kg

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