

# **THE GOLDMUND LOGOS SUB SUB-BASS SPEAKER SYSTEM**

**USER MANUAL**

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## **CONGRATULATIONS**

Thank you for purchasing the Goldmund Logos Sub Speaker. You have acquired one of the best Speaker ever made for professional and domestic uses. Please take some time to read this manual. It may provide you with useful information to make your pleasure of listening to the Logos Subwoofer even higher.

## **WARNING !**

This extremely high quality speaker possess new technical features which are a necessity for an accurate sound reproduction in the best audio systems.

Only careful installation and use can provide the satisfaction you are expecting.

The installation instructions must be scrupulously carried out and the mentioned precautions taken to get the expected result and to avoid to deteriorate the speaker.

**If the unused input is not short-circuited properly as indicated below, warranty does not apply.**

Nevertheless, if the instructions are perfectly carried out, you will notice that the sound quality of your Goldmund Logos Subwoofer is incredibly dynamic, precise and sweet.

**NOTE :** The speaker has been assembled for a full testing at the factory with the associated other speakers. It is perfectly normal that some metallic parts show some slight marking from this preliminary assembly process.

## **1. PRELIMINARIES**

The Goldmund Logos Sub uses very innovative technology to achieve a level of definition and neutrality never found before in a sub-bass speaker system.

Please read very carefully the following instructions. This high-precision speaker is extremely revealing and can provide the best sound only if it is used properly.

The Logos Sub is never used as a stand-alone speaker. Its most usual configuration is associated to one or more pair of Logos Speakers or Logos Mini Speakers in a 2 channel or Multi-channel Speaker System.

## **2. UNPACKING THE LOGOS SUB**

**ATTENTION :** If you need to return the speaker to the factory or to your local representative for a warranty repair, please note that it must be repacked in the original packing. Otherwise new packing will be charged as well as the repair of damages occurred due to poor packing conditions.

After unpacking, and despite its weight, the Logos Sub may still be moved easily for acoustic setup. Be only careful to not damage the grills which should be attached only when the speaker is set in its final position.

## **3. SELECTING THE LOGOS SUB LOCATION**

A very rigid floor is very important for the optimal sonic result of your Logos Sub speaker. Select a position of the speaker to have the most rigid possible coupling with the floor. Solid coupling is essential, and if your support is standing on a suspended floor, optimal result requires that you arrange the support to have at least 2 feet above a supporting beam or close enough from a supporting wall.

## **4. SPEAKERS PHYSICAL ALIGNMENT**

To arrive to the listener simultaneously, the waves front created by each speaker section in a system should be aligned to be at an equal distance from the listener position. This is more critical in Stereo use than in multi-channel where the levels and delay of each speaker are adjusted separately.

The departure position is when the front panel of each speaker is aligned to be at the same distance from the listening optimal point

## 5. SPEAKER CONNECTIONS

Usable in any type of configuration, the Logos Sub has a built-in amplifier with both analogue and digital inputs and a built-in input crossover.

The amp connecting panel provides two additional switches to select the analogue or digital inputs and which channel of the SPDIF signal is used.

The only connections needed are the Power cord and the interconnect linking the Logos Sub to the output of the preamplifier, or in digital, the digital link cable for SPDIF input.

The Logos Sub may receive two analogue cables if one only one Subwoofer is used so the right and left channels may be mixed automatically inside the crossover.

**ATTENTION : If you use 2 Subwoofer in analogue, you have only one cable that can be connected to any of the two available RCA inputs. In such a case, always leave the unused input on each Logos Sub with a short-circuiting plug mounted.**

**ATTENTION : In most configurations, the ground wire from AC plug must absolutely be lifted on all amplifiers and on the Logos Sub connection to the AC line. Otherwise a bad ground loop may make amplifiers oscillate and be destroyed.**

The Logos Sub is automatically powered ON when it receives modulation.

For a Home-Theatre connection, several possibilities are accessible.

The connection is different if the speakers are used in a multi-channel system or in a 2 channels system :

### A. Connection in a Multi-Channel system :

If used in a multi-channel system :

- One Logos Sub may be connected to the Suwoofer channel, either in analogue or digital.
- 2 x Logos Sub may also be connected in parallel to the sub-woofer channel in analogue.
- To match the Logos or Logos Mini speaker in frequency response, use the position 2 (center) of the crossover frequency adjustment. Level adjustment depends on the room acoustics.
- The higher position of the crossover is set for higher crossover frequencies (around 80Hz). Do not use it for linear response but only to emphasize the low frequency effects.
- The leftmost first position provides a 35Hz cutoff frequency and is used to complement a system based on the Goldmund Epilogue 1 speakers.

## **B. Connection in a 2 channel Stereo system :**

When used in a stereo system, a Logos Sub may be used to complement in low frequencies a pair of Logos Mini or Logos speakers, or even a pair of Epilogue 1 speakers. You may use one or two subwoofers :

- If you use 2 subwoofers connect the right channel to the right subwoofer and the left channel to the left subwoofer. Try to align the distance of the subwoofers to be identical to the distance of the main speakers from the listening point. If you use analogue connections, always leave a short-circuiting plug on the unused analogue input.
- If you use only one subwoofer in analogue, connect one analogue input of the subwoofer to the right channel and the other to the left channel of the preamplifier.
- Frequency adjustment : see the above section.

## **6. RUNNING-IN FOR THE LOGOS SUB**

The Logos Sub, like any other top quality speaker needs several days playing music before providing the top sonic quality it is built to provide.

The few first hours can be very frustrating for a demanding listener.

Do not hesitate to let it play quite loud some time before attempting any real system tuning or position adjustment.

## **7. CLEANING THE LOGOS SUB**

To clean the metal case of the speaker, you can use a wet cloth. Always use a very soft cloth to avoid scratching the surface.

The identification plate is gold plated. Simply clean it with a soft cloth, without any chemical solution.

## **SPECIFICATIONS**

### **Logos Sub**

**Amplifier Analogue Input Impedance** : > 100 kOhms.

**Amplifier maximum power** : 400 W Rms.

**Drivers** : 25cm driver and 25cm passive radiator mounted in phase.

**Bandwidth** :

- Low Frequency Cutoff : < 21 Hz -3dB.
- **Electronic Crossover** : 3 separate low-pass crossover frequencies (35Hz, 50Hz, 80Hz). 24dB per octave slope.

**Master level control.**

**Bass Load** : Passive radiator.

**Size and Weight** :

- Weight of one sub-woofer : 40 kg.
- Size of one sub-woofer : 32 cm (H) x 32 cm (W) x 32 cm (D).