GOLDMUND CHIASMA1
NETWORK CONTROLLER

USER MANUAL

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CONGRATULATIONS

Thank you for purchasing the Goldmund Chiasma 1.
You have acquired the most advanced Home Network Controller 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 using your Chiasma 1 even higher.

WARNING !

All handling must be performed according to the following instructions to avoid the controller's malfunction or deterioration.

Nevertheless, if the following instructions are correctly carried out, you will notice that the use of the Chiasma 1 is quite simple and convenient.

Important : Please do not connect any wire or move any part before reading the following instructions.

1. PRELIMINARIES

Please read very carefully the following instructions for installing the unit.

This high-technology Network Controller may be used in many type of application, the most common being a wired or wireless distribution center for music inside the whole house, when used in association with the “Goldmund Library“ software.

For exacting technicians, musicians, and all amateurs who demand the very best in music storage and distribution, in association with the “Goldmund Library” software, the Chiasma 1 becomes a powerful server which can be distributing music up to 20 different locations for 10 simultaneous different users each maintaining their own music database. The Chiasma 1 may be used to load your CD’s in the built-in database, encode it with choice of 3 encoders, store the music in its own hard disks and distribute it through a wired or wireless standard Windows network.

In addition to music distribution by the local Network, wired or wireless, a direct connection to a local system is available by an SPDIF connection on the rear panel. In such a case, Goldmund recommends using the SPDIF connection with its special Goldmund Lineal cable. In such a configuration, the Chiasma 1 will become an additional digital Audio source to a standard 2-channel or multi-channel system.

2. UNPACKING

You will find in the package :

- the controller itself,
- the power cord,
- this owner's manual.

Unpack carefully the above-mentioned parts.
Keep the whole package for future use.

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

3. CHOICE OF THE CHIASMA 1 LOCATION

The Chiasma 1 is built by Goldmund using the best known technology of noise and vibration cancellation (Goldmund “Mechanical Grounding”) to insure a very silent and vibration free operation.

Select a very rigid support for your controller.

Especially if you use the local SPDIF output, the Chiasma 1 may be located inside the room system in a rack or any especially designed cabinet. Its construction, designed in collaboration with the “Sylans” company specialized in silent computer technologies, makes it silent enough to be located in the listening room.

If used without the local output and only as a network controller, the Chiasma 1 may be located anywhere convenient for the network setup.
When using a wireless network, the controller must be located in a privileged position giving a 100% link to the wireless router to insure a maximum throughput of the network.

You must also be careful to locate your Chiasma 1 in a well ventilated location. When powered on, the Chiasma1, as all high quality electronic equipment, generates a significant amount of heat which has to be evacuated by natural ventilation.
For the same reason, it is perfectly normal that, after few hours of operation, your Chiasma 1 gets quite hot.

4. POWER SUPPLY

The Goldmund Chiasma 1 controller uses a power supply selected by Goldmund to provide totally separate voltage to each part of the digital and analog circuitry.
Your power supply unit has been set to operate with the mains voltage of your area. Check on the power supply voltage switch (located inside the box, just behind the front panel) if there is any doubt. If you move after purchasing the controller to an area using a different AC mains voltage, you can change the voltage by yourself or consult your local Goldmund dealer for assistance.
The power supply unit can operate indifferently with both 50 and 60 Hz AC line.

5. FIRST INSTALLATION AND CONNECTIONS

Power Connection

Plug the AC power cord to the power supply and in a wall socket.

The controller is and remains on power as soon as the power switch located on the back panel is turned on. For practical use of a home network, Goldmund recommends to leave the controller powered on permanently.

The unit has a reset control by pressing the 2 front keys simultaneously. The unit being continuously monitored for any failure in its software, this “Reset” function should never be necessary. In case of a definitive hardware malfunction a message may appear that the unit is defective and need to be serviced.

When turned ON by the back panel power switch, the unit accomplishes a self test and boot run by its internal software which takes a few minutes, then a software routine successively test the modules inside the machine. If any abnormal functioning is detected, it is displayed on the front panel.

Spdif Output Connection

If you use the local output, connect the rear RCA connector to the main system preamplifier, D/A converter or Multi-channel controller. Use a high quality Goldmund lineal 50 Ohms cable.

You do not need to use any other connection if the network distribution is not implemented or if the network use wireless transmission.

Wired Network Connection

If you are building a wired network inside your house or company building, connect a RJ45 Cat6 cable to the network connector on the rear panel. This output is a gigabit capable connection and the Cat6 cable must be chosen accordingly.

RS232 Connection

The RS 232 Db9 connector available on the back panel of the Chiasma 1 may be used to link the unit to external units in order to control their function by remote control or to a computer to modify the built-in software. It may also be used to control the Chiasma 1 with remote systems like AMX or Crestron.

6. FRONT PANEL KEYBOARD FUNCTIONS

- Left key : Ripping mode selection
The Left key is selecting the 2 ripping mode :
“Auto” means the ripping of the disk is automatic.
“Manual” mans the controlled ripping is activated. A selection of the track to rip is then accessible from one of the remote control units of the network.

- Right Key : Encoding mode selection
The left key access the encoding mode for the next disk to rip. The selection is :
- AKC (AudioNetworks Kairos Compression). Default mode with middle compression and high sound quality. Recommended for wireless network playback in multiple destination.
- Wave : Uncompressed mode for maximum quality. Not recommended for playback many track simultaneously.
- MP3 : for compatibility in other players. Lower quality with high compression.

7. CLEANING

Always disconnect the power cord from the wall socket before cleaning your controller.

To clean the metal of the converter, always use a very soft cloth to avoid scratching the surface. Use a soft cloth slightly wet for usual maintenance.

TECHNICAL DATA :

BUILT-IN MAIN PROCESSOR

- Pentium 4 processor, Controlled fan cooling
- 512MB DDR memory
- 2 x 250GB Serial-ATA hard disks mounted in mirroring in a noise-reduction enclosure
- Fanless power supply.
- Built-in DVD-ROM.
- Back Panel connection
    - Mini-Din Keyboard and Mouse connectors
    - 2 x USB2 connections
    - 1 x RJ45 Gigabit Lan connector
    - 1 x Serial Port (COM1) High speed serial.
    - 1 x Parallel Port
    - 1 x Video card with DVI output up to 1920x1200 at 100Hz capable, VGA and S-Video connection for future Video playback.

SECONDARY PROCESSOR

- HC11 processor controlling the main computer through RS232 and the front panel keys and display.

DIGITAL AUDIO OUTPUT

- 44kHz 16 bits PCM output in SPDIF format.

SIZE AND WEIGHT :

- 44 cm W x 44 cm D x 19.5 cm H.
- 25 kg.

WARRANTY :

- 3 years parts and labor.