

USER MANUAL

GOLDMUND TELOS 390.5

Integrated Amplifier



Thank you for purchasing the Goldmund TELOS 390.5 Integrated Amplifier.

You have acquired one of the best integrated amplifiers ever made for professional and domestic uses. It incorporates the Goldmund TELOS amplifier technology. Please take some time to read this manual. It may provide you with useful information to make your pleasure of listening to the Telos 390.5 even higher.

INTRODUCTION

GOLDMUND Telos 390.5 Integrated Amplifier

Goldmund was founded in 1978 and has ever since been dedicated to the accurate reproduction of sound and image.

At Goldmund, we strive to lead in the creation, development and manufacture of the industry's most advanced technologies, including audio and video systems.

The guiding principle at Goldmund is to produce a precise sound with the latest possible loss of quality through the different stages. Goldmund will never adopt a technology before it is sufficiently developed to satisfy the high quality standards we set. This is why Goldmund has often rejected mainstream technologies and developed its own.

W A R N I N G!

This high quality amplifier possesses new technical features such as ultra-high band width and computer linking which are necessary for accurate transcription within today's best audio systems.

Only careful use can provide all the satisfaction you are expecting.

All handling must be performed according to the following instructions to avoid impairing the amplifier's performance.

Nevertheless, if the instructions are perfectly carried out, you will notice that the use of the GOLDMUND TELOS 390.5 is quite simple and convenient.

IMPORTANT

PLEASE DO NOT CONNECT ANY CABLES OR MOVE ANY PARTS BEFORE READING THE FOLLOWING INSTRUCTIONS.

Table of Contents

1	UNPACKING	5
2	CHOICE OF LOCATION & COOLING	5
3	CONNECTIONS & LINE VOLTAGE ADJUSTMENTS	6
4	AMPLIFIER CONTROLS	8
5	SOUND QUALITY OPTIMIZATION	9
6	MAINTENANCE AND CLEANING	9
7	TECHNICAL DATA	10

1

UNPACKING

You will find within the custom packaging:

- The Telos 390.5 amplifier,
- The remote control & batteries (to be fitted before use),
- The power cord,
- This owner's manual.

Unpack the above-mentioned parts carefully.

Keep all packaging for future use.

WARNING

If you need to return the Telos 390.5 to the factory or to your local representative for a warranty repair, please note that it must be repacked in the original packaging.

This packaging has been designed specifically to protect your Telos 390.5 in transit. Use of alternative packaging is likely to result in damage, invalidating warranty cover.

2

CHOICE OF LOCATION & COOLING

The Telos 390.5 integrated amplifier, like all high quality amplifiers, generates a lot of heat when driven at high levels and therefore must be vented properly.

It is mandatory to allow proper cooling of the heat sinks.

Do not put temperature sensitive equipment on top of the Telos 390.5.

NOTE

The analog input 4 is set to work as a « Direct Out » cinch without gain level control. When the input 4 is activated (PP will be shown on the display), the volume control will be disabled and the output will be played without attenuation.

OS compatible USB Audio Class 1.0 (i.e. Windows Vista/XP/2000, Mac OS X, and Linux).
It supports up to 96 kHz /24 bits.

Connect the power cord to the back of the integrated amplifier and plug it into the nearest wall plug. For safety reasons, use only a 3 lugs grounded plug.

To get the best sound from the Telos 390.5, avoid any multi-way plugs or extension cords.

Connect a computer, CD/DVD or Blu-ray player to the back panel of the Goldmund Telos 390.5 integrated amplifier, using either the USB Audio (input 7), RCA Analog (inputs 1 to 4), RCA Digital or Toslink Optical connector (inputs 5 to 7).

The Telos 390.5 driver will automatically be installed on your computer when its input source is connected for the first time with the USB audio connector. It will then be identified as “Goldmund USB Audio” in all audio related software. This installation is performed only at the first USB connection.

When the input source is connected, connect the speaker output binding posts to the speaker using a high quality speaker cable.

Only one connection per input can be used at once.

The automatic input selection has been set so the USB Audio connector has the priority over the other input. To use the digital or optical input, turn off the computer to which the USB input on disconnected or unplug the USB connection. The converter will then automatically detect the RCA/Optical Toslink connection and will switch to it.

ATTENTION:

A residual high frequency noise may remain audible in some circumstances if an analog input is left open and is selected. This disturbance has no effect on the amplifier but may be avoided easily through the application of short-circuit plugs on all unused inputs.

3

CONNECTIONS & LINE VOLTAGE ADJUSTMENTS [Ctd.]

3.1

LINE VOLTAGE ADJUSTMENT

The Goldmund Telos 390.5 uses an internal power supply developed by Goldmund to provide totally separate voltage between the USB part and the digital/analog circuitry.

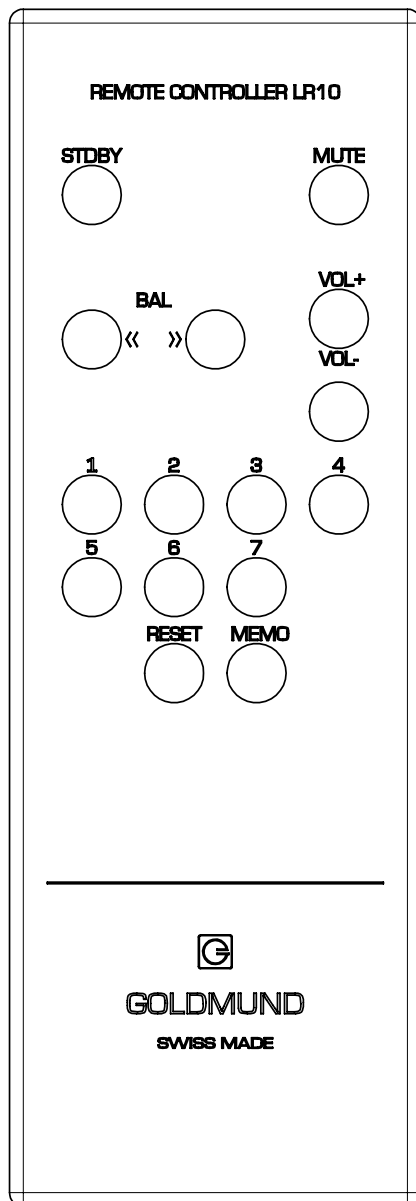
Your power supply unit has been set to operate with the mains voltage of your area. Check on the power supply voltage switch on the rear panel if there is any doubt. If you move after purchasing the integrated amplifier to an area using a different AC mains voltage, you can change the voltage yourself or consult your local Goldmund dealer for assistance in doing so.

The voltage selector on the rear panel allows choosing between 220V (234V nominal) and 110V (117V nominal).

Please refer to the Technical Specifications at the end of this manual for the main line voltage range.

In case the nominal line voltage in your country is out of range, please consult your local Goldmund dealer for assistance.

The power supply unit can operate indifferently with both 50 and 60 Hz AC line.



The Telos 390.5 integrated amplifier is powered on using the switch located on the back panel. In regular use this switch should be left ON at all times (see sound quality optimization). The standby function of the remote control should be used to mute the signal for safe removal of cables. When in standby mode the front panel operation locking LED will blink intermittently.

The amplifier is powered OFF by switching the back panel switch to the OFF position. A safety circuit switches the unit to mute to avoid any disturbance reaching the speakers.

MUTING

To mute the integrated amplifier output, press the "MUTE" key. The same operation repeated brings back the amplifier to normal operation at the same volume as in operation at the point the mute function was activated.

VOLUME ADJUSTMENT

The level control may be adjusted manually using the front panel knob or by using the + and - buttons on the remote control.

SELECTOR

The selector knob selects one of seven available inputs (4 analog and 3 digital). Each step clockwise selects the next input in sequence. Selection may also be made using the remote control by pressing the key corresponding to the input on the remote control.

An orange locking led is lighted up when an analog input is selected or when a digital source is connected to one of the 3 digital input.

BALANCE ADJUSTMENTS

The balance of the integrated amplifier may be adjusted using the "<< ; >>" BAL key press on the remote controller. A point under the volume or under the input, on the display, will show the balance right and left of the audio signal. This function is only accessible via the remote control.

4

AMPLIFIER CONTROLS (Ctd.)

OPENING VOLUME MEMORY

This function is only accessible via the remote control. It allows the volume to be automatically set to the level fixed when the unit is turned ON.

To adjust the level, first select the desired output level, and then press MEMO on the remote control.

If at any time during playback you wish to return to this level, just press the RESET button.

SERIAL PORT

The Telos 390.5 integrated amplifier can be controlled via a standard computer serial port, please contact your Goldmund representative for more details.

5

SOUND QUALITY OPTIMIZATION

WARM UP SONIC EFFECT

If the amplifier has been powered off for some time, the optimum sound quality is only reached after some time. It may take 15 minutes for the amplifier to reach optimum operating temperature, as the circuits have to warm up to around +55 degrees Celsius (=131degrees Fahrenheit).

6

MAINTENANCE AND CLEANING

The Telos 390.5 amplifier usually requires no maintenance. Please contact your Goldmund approved dealer if any maintenance should be required.

Always turn the power OFF before cleaning your amplifier.

To clean the external metal of the amplifier, always use a clean, soft, damp cloth. Dampen it with water or a mild detergent solution. Avoid abrasive or harsh cleansers (e.g. products containing sodium carbonate).

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

POWER SUPPLY

- Nominal line voltage: 117 or 234 V (switchable)
- Fuse 8A for 110V and 220V
- Input voltage range: +/- 10 %

POWER

- Nominal power: 2 X 210W on 8 Ohms before clipping
 - Maximum voltage: 55V peak
- These values are for both driven channels.

ANALOG INPUTS

- 4 x RCA analog input (Left & Right)

DIGITAL INPUTS

- 1 x Digital S/PDIF coaxial RCA 75 Ohms or Toslink Optical
- 1 x Digital S/PDIF coaxial RCA 75
- 1 x USB AUDIO

REAR PANEL CONNECTORS AND CONTROLS

- 2 x output binding posts Left & Right
- 1 x USB Audio connector
- ON/OFF power switch key
- Voltage input selector
- RS232 Command connector

TECHNICAL DATA (Ctd.)

FREQUENCY RESPONSE

- +/- 0.5 dB, 20 - 20 kHz
- Typical phase error between channels: < 0.5 degrees

DISTORTION

Measured with 20 Hz - 20kHz bandwidth and 80 kHz signal:

- Static: THD + N ratio <0.002%

NOISE

- Signal-to noise ratio: > 120 dB at 0 dBFS

OPERATING TEMPERATURE

- Room temperature: -30 to +40 degrees Celsius (-22 to +104 degrees Fahrenheit)
- Internal temperature: +45 to +65 degrees Celsius (+113 to +149 degrees Fahrenheit)

SIZE AND WEIGHT

- 44 W x 43 D x 13 H (cm)
- Weight: 15 kg

WARRANTY

- 3 years parts and labor

Information and product specifications contained in this manual are subject to change without prior notice. Updated versions of this manual will be posted on our website at www.goldmund.com.

Please visit our support page at <http://www.goldmund.com/support/register> to register your Goldmund product for warranty.