

# GIGA GUARD



Dear customer,

Thank you for your purchase of a SCHNERZINGER product.

Please take the time to precisely read the information in this guide. You will find important instructions to use your product and hints for the optimal integration into your Hi-Fi system.

This guide facilitates your use of the product, promotes understanding its functional characteristics and helps you to obtain the full efficiency of the product.

We hope you enjoy your new SCHNERZINGER product.

Please clean the product with a non-scratching dry duster only. Avoid using cleaning agents.

A potting compound in the devices protects the innovative GIGA CANCELLING technology with its particular electrical components specially manufactured for SCHNERZINGER against direct access and screening via X-ray or magnetic field applications. A slight rustling caused by this potting compound is normal and does not result in any functional impairment. There are no informed crystals in the devices.

In case of malfunctions contact your SCHNERZINGER dealer. Please do not attempt to service the device yourself or to open it, in that case you will lose your entitlement for our manufacturer warranty.

In the case of damages at the power plug or power cable please initiate an exchange at SCHNERZINGER via your dealer.

## Package Contents

### **GIGA GUARD MASTER**

CONTROL UNIT (COUA)

12V Power Supply, cable length 1,5m

3,5mm jack extension cable 5m

Antenna

1 GIGA GUARD module at buyer's option incl. antenna

### **Dimensions and weight** (l x w x h in cm, weight in kg)

GIGA GUARD MASTER      7 x 7 x 3.5 (without antenna), 0.3  
The antennas are 11 cm long.

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## PROTECTOR SYSTEM

The music reproduction quality of an audio system is highly affected by low and high frequency electrical interfering fields, caused by Wi-Fi, cellular radio, power lines etc. With the **PROTECTORS** and their integrated trendsetting **GIGA CANCELLING** technology, SCHNERZINGER has developed a product category that actively eliminates the sonic effects of low and high frequency interfering fields.

The PROTECTORS significantly enhance the transmission quality of audio systems. The sonic effects include an astonishingly higher spatial depth and resolution as well as increased broad and fine dynamics in music reproduction.

Utilizing the operating principle and efficiency of the GIGA CANCELLING technology, the SCHNERZINGER PROTECTORS represent a unique solution in the market.

An important health aspect: protector technology does not increase radiation exposure within the room.

## GIGA GUARD

### Protection of Hi-Fi - components via direct plug-in

Wireless controlled GIGA GUARDS use GIGA CANCELLING technology to clear up internal interfering fields, originating in the devices. From the master unit they receive a dejamming signal, actively penetrating the entire device.

In order to protect the sensitive signal inside the devices against impairment, developers of high grade devices try hard to keep interfering fields low inside of the devices by use of very low stray field components or by shielding enclosures. Problematic power filter or conditioner may help keep external field loads away from the device, but the inner interfering fields, caused by the equipment itself and close to the audio signal, cannot be cleared up this way.

In contrast the GIGA GUARDS actively operate right in the equipment, in the immediate vicinity of the signal-transmitting components. This makes them an unrivaled solution on the market.

The product line comprises several specific GIGA GUARD modules for the respective application: **RCA, XLR, BNC, USB**.

## Connecting the Hi-Fi Components

The **GIGA GUARD MASTER** may control several GIGA GUARDS. Hi-Fi Components are connected through the individual GIGA GUARDS. The particular Hi-Fi component should be switched off\* during installation.



Via the GIGA GUARD modules RCA, XLR/W, XLR/M, BNC, USB Type A and Type B first the free inputs of the Hi-Fi components (but no speakers\*) are available to connect to the GIGA GUARD.

For each single component please test the optimal input; primary digital inputs, alternatively analog inputs. Per component more than one GIGA GUARD may be connected, this results in an increased effect for this component.

Only in the exceptional case that no digital or analog input is available, the effect of a GIGA GUARD may also be tested at an output (digital or analog). Caution: An output may even have an adverse effect, which may not be apparent immediately, but only after a few minutes.

Screw in the antenna for each individual GIGA GUARD; by turning and bending at the hinge it has to be moved and stay in upright position for proper functioning.

\* Caution – risk of damage

## Setting up the GIGA GUARD

The **GIGA GUARD MASTER** has three power levels to simply adjust GIGA CANCELLING technology via a toggle switch. This makes it possible to adapt to any interference field spectrum.

Changes need some time to take effect mostly. Therefore at each of the following steps you should wait for app. two minutes before judging.

Do not change the results as determined from the previous steps when you do the subsequent steps.

## 1. Step: Base setting master

The GIGA GUARD MASTER should be placed close to the Hi-Fi devices.

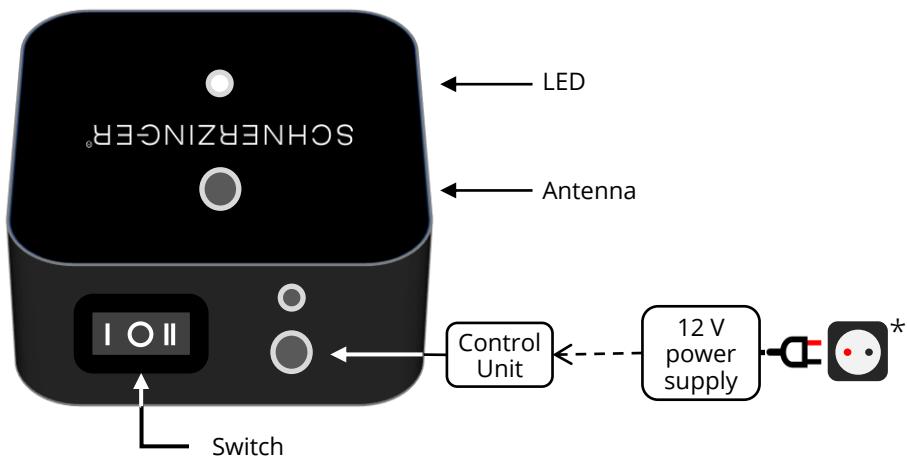
Usually (power level 1), the master will be operated without the 12V power supply. To maintain its performance, it should be connected to the grid with CONTROL UNIT and 12V power supply once a year for 15 minutes.

**Connect antenna** (upright position) and **CONTROL UNIT** (COUA) to the master, without 12V power supply.

Set the switch of the master to base setting 0.

## 2. Step: Connecting the Hi-Fi Components

See separate page 3.



### 3. Step: Switch in front - adjustment of the power level:

If power level 1 is not sufficient for the present interference field spectrum, 2 additional power levels can be activated. This requires the permanent connection of the 12V power supply\* to the CONTROL UNIT and the grid. The 12 Volt power supply should be connected to a power circuit separate from the Hi-Fi system – ideally even to a different power phase.

0 = Power Level 1 – with COUA, **without 12V power supply**

1 = Power Level 2 - with COUA, **with 12V power supply**, LEDs on

2 = Power Level 3 - with COUA, **with 12V power supply**, LEDs high

\* note the correct phase (marked with a silver dot) - measure the phase of your socket.

## Lasting Effect of the GIGA GUARD

The **GIGA GUARD** constantly operates to clear up interfering fields effectively and comprehensively.

If after a while you once want to hear the performance of your system without your GIGA GUARD, the buffering effect absolutely has to be considered.

If the GIGA GUARD is switched off for a short time only, it still takes effect because of the buffering of the power supply unit.

Disconnect the 12V power supply (if connected) and the CONTROL UNIT from the power grid and the GIGA GUARD MASTER resp. Disconnect all GIGA GUARD units from the devices. Additionally remove the antennas of all units, place the MASTER and the GIGA GUARD units on the floor and set the switch of the master to position 2. Keep these conditions for several hours, preferably overnight. This way you achieve that the GIGA GUARD has no effect any more.

Upon recommissioning the interfering fields will be cleared again fast.

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