

PICCOLO PROTECTOR



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 HiFi 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 CANCELING 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

PICCOLO PROTECTOR Set

CONTROL UNIT (COUA)

12V Power Supply, cable length 1,5m

3,5mm jack extension cable 5m

Antenna (per unit)

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

PICCOLO, each unit 7 x 7 x 3.5 (without antenna), 0.3

The small antenna is 11 cm long, the big 39 cm.

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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 CANCELING** 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 CANCELING 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.

PICCOLO PROTECTOR

Utilizing integrated GIGA CANCELING technology the **PICCOLO PROTECTOR** protects its direct environment from losing sound quality due to high frequency interfering fields.

Due to its compact dimensions it offers a very flexible selective assignment at several critical points in the listening room. Via careful selection of the application spots you can sensitively react to the specific spatial circumstances and respect individual sound preferences.

The PICCOLO PROTECTOR is offered as a set of 1 to 6 or 9 units, in each case consisting of one master and several satellites. A PICCOLO PROTECTOR set has to be operated with a master. In case of a single PICCOLO PROTECTOR the single unit is the master.

All individual units of a set will be operated with an antenna.

Optimal Positioning

As the effect is optimized for the near field, the placement of the units of the **PICCOLO PROTECTOR** set is particularly important. Ideally the **MASTER** should have a central position.

For maximum impact Schnerzinger recommends to test different variants.

General Information to positioning – always the speakers are the point of reference:

front (in front or on top of the speakers):	A more direct sound
lateral (beside the speakers):	Width of sound expands
back (behind the speakers):	Depth of sound expands
At the listening position :	The sound surrounds the listener

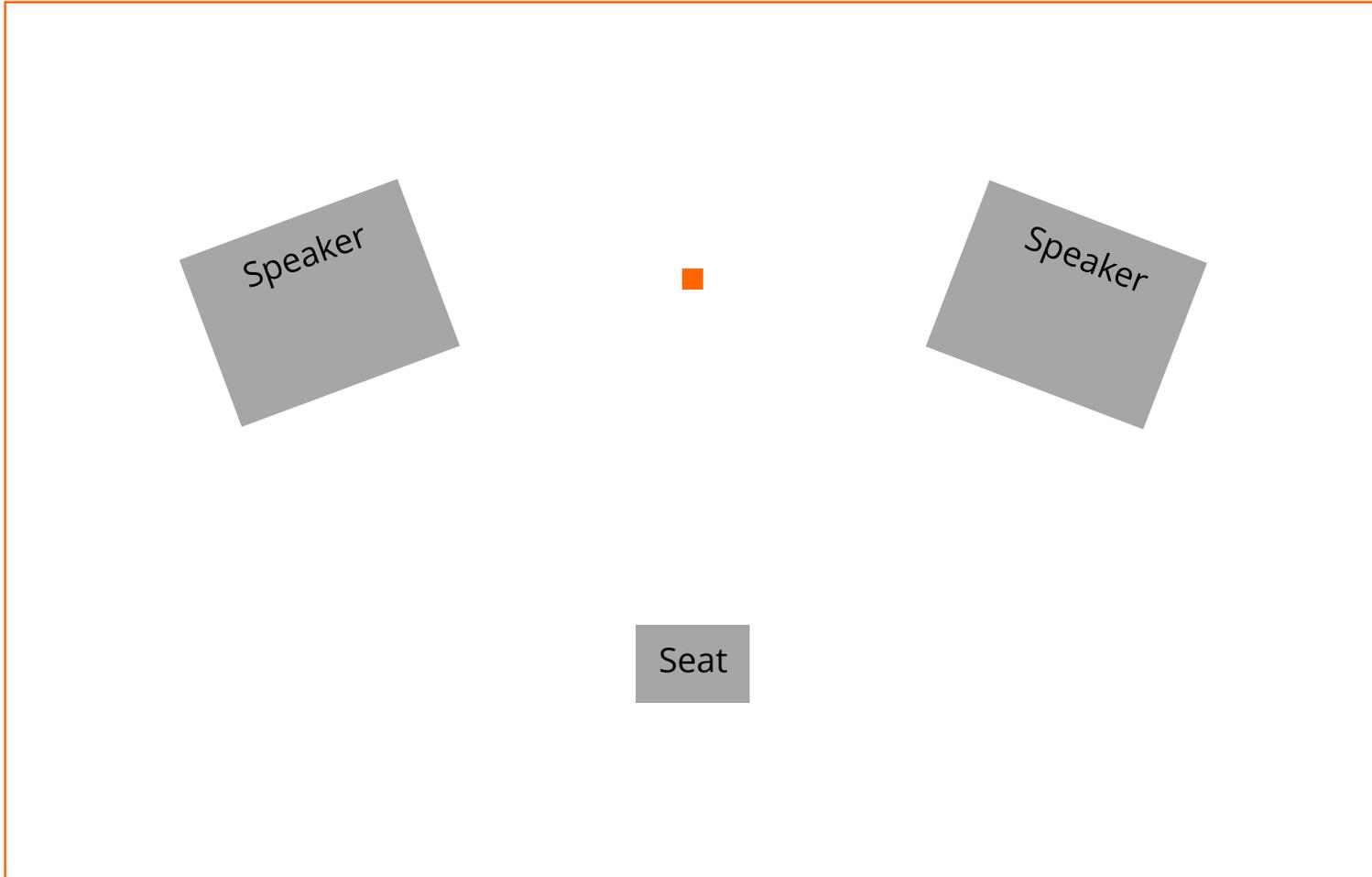
PICCOLO units may be placed **on a HiFi device**.

All PICCOLO units are **aligned uniformly** and **parallel to each other** as follows: The **back of all units** (on which the switch is located) points to the wall behind the speakers, the front (the LED is located near the front) points to the opposite wall.

The PICCOLO units on the loudspeakers may be aligned to the listening position to improve the focus of the sound.

Optimal positioning height proved to be in the area of 1,10 – 1,80 m.

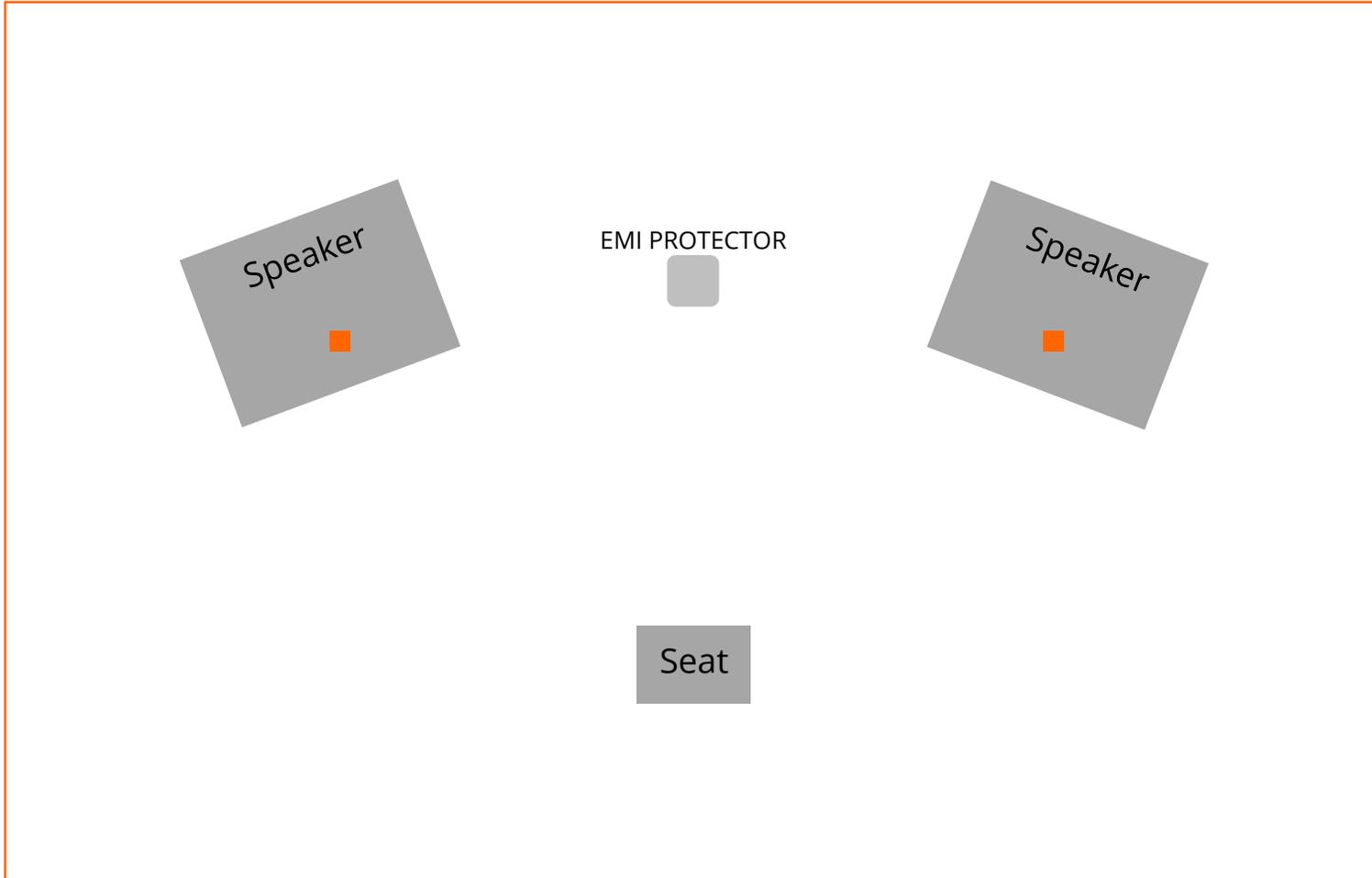
Proven Positioning Variants



1 x PICCOLO PROTECTOR:

1 unit on a HiFi
component or between
the speakers

Proven Positioning Variants

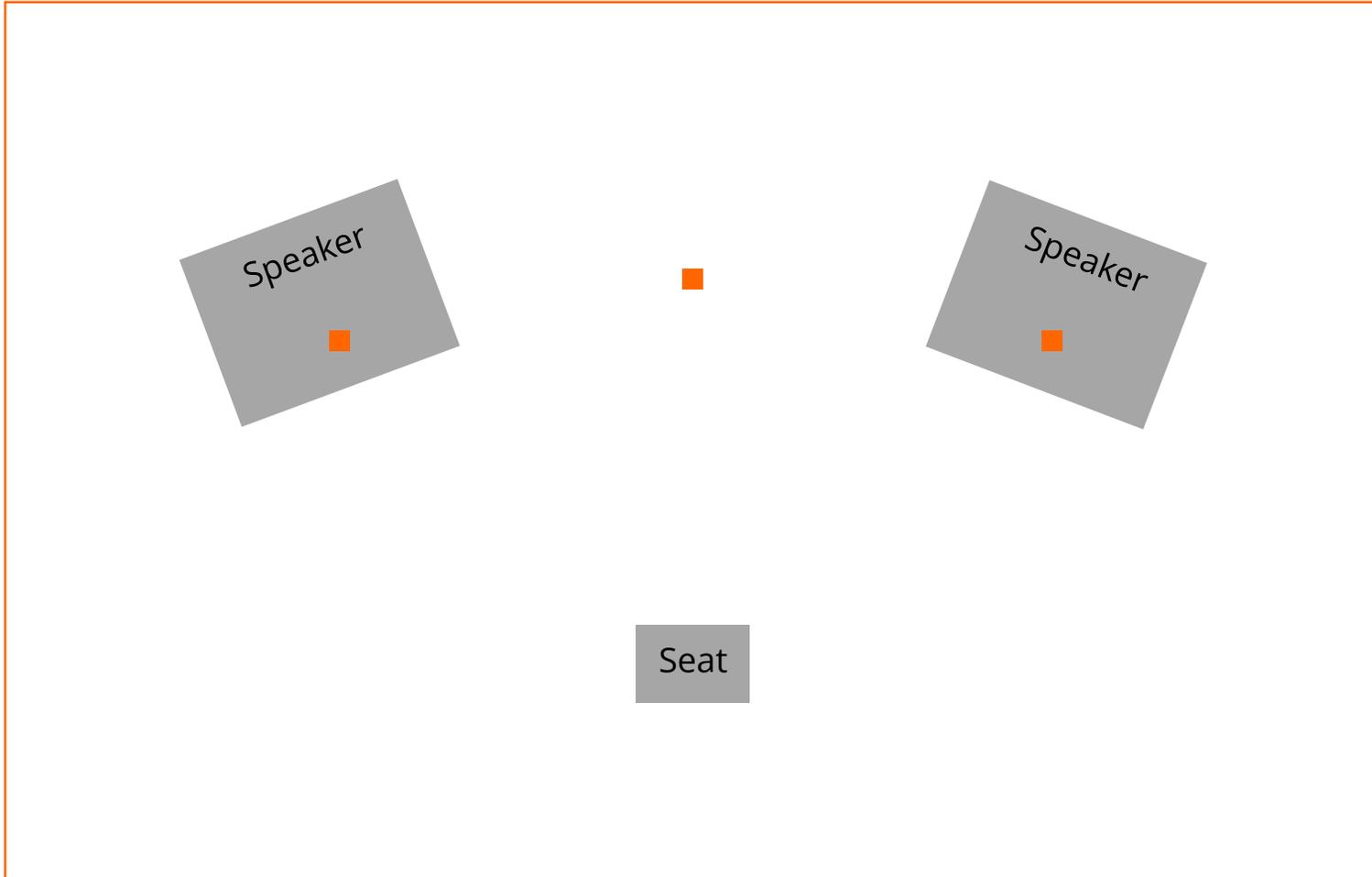


**If an EMI-PROTECTOR
is available:**

**2 x PICCOLO
PROTECTOR:**

1 unit on each speaker

Proven Positioning Variants

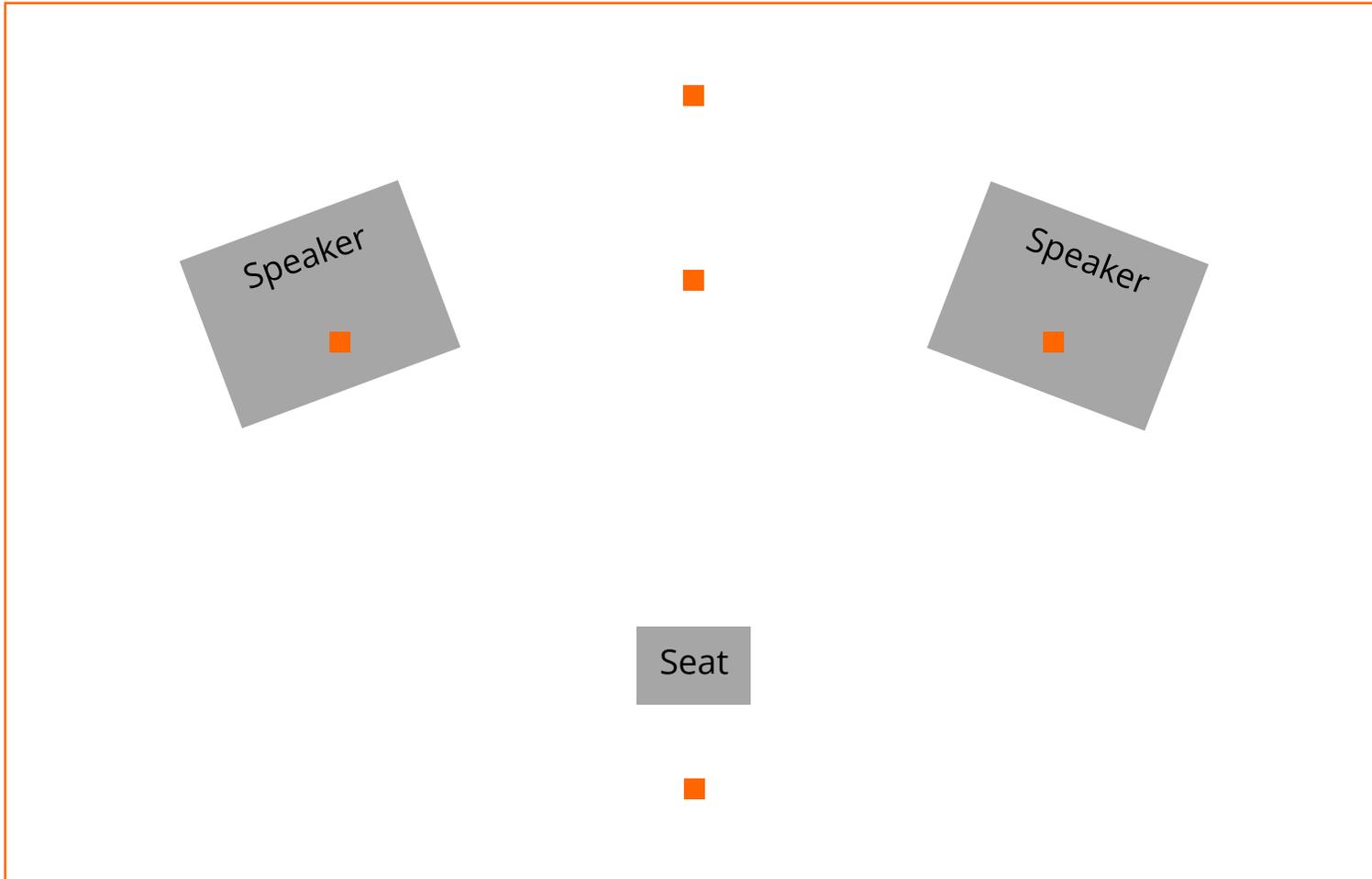


3 x PICCOLO PROTECTOR:

1 unit (master) on a HiFi
component or between
the speakers

1 unit on each speaker

Proven Positioning Variants



4 or 5 x PICCOLO PROTECTOR:

1 unit (master) on a HiFi component or between the speakers

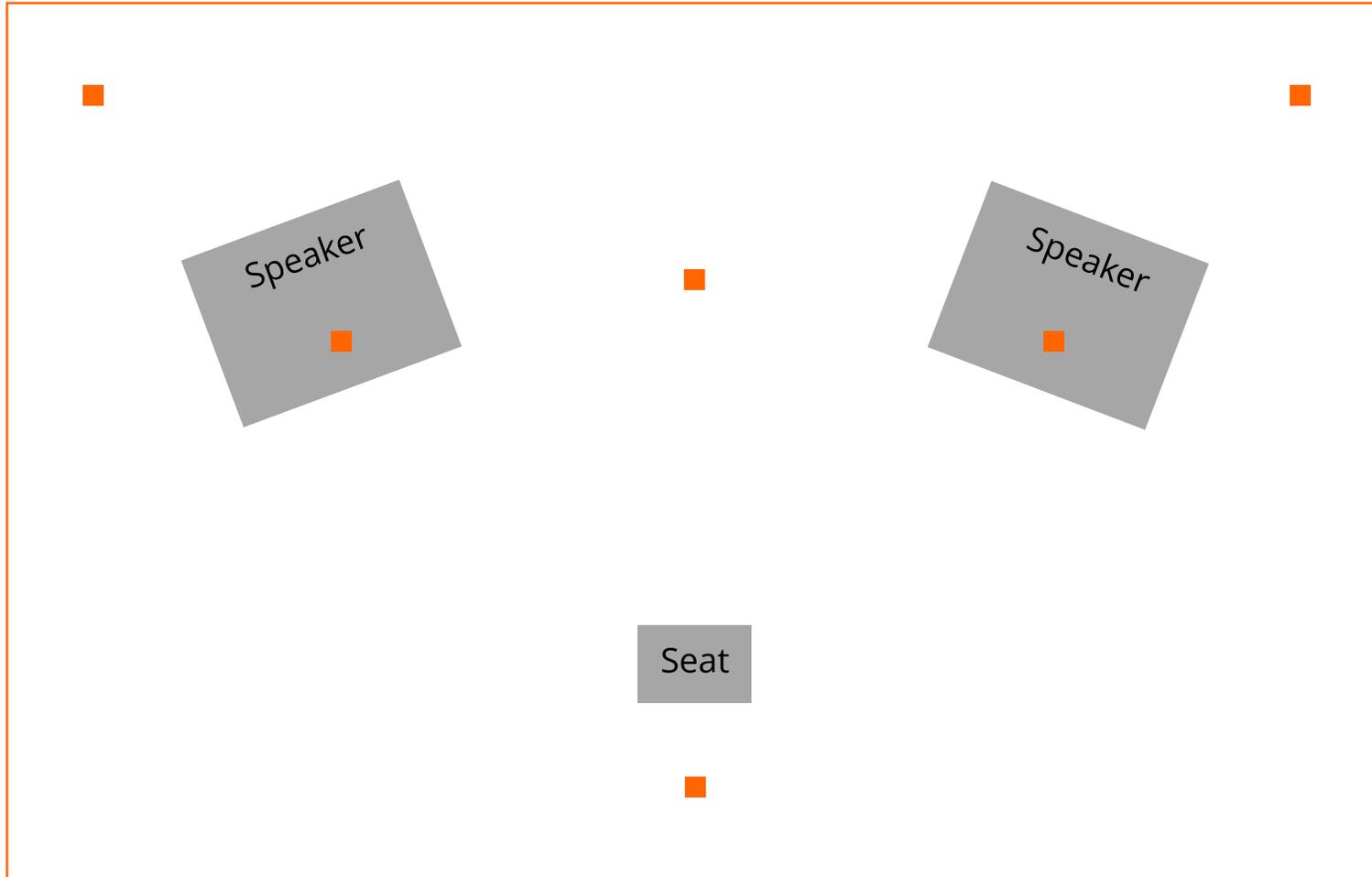
1 unit on each speaker

1 unit centrally at the front wall

and/or

1 unit at the wall behind the seat

Proven Positioning Variants



6 x PICCOLO PROTECTOR:

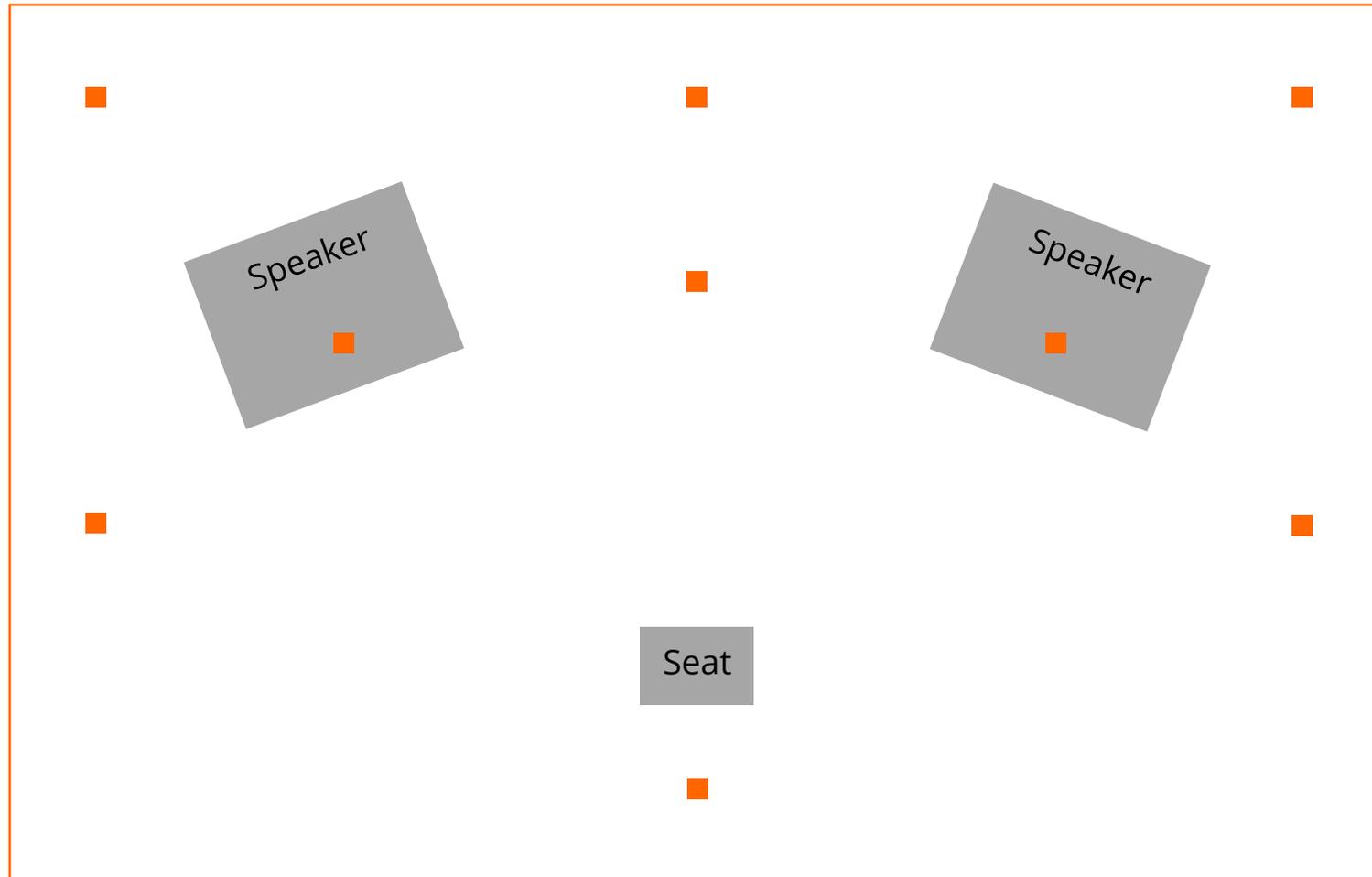
1 unit (master) on a HiFi component or between the speakers

1 unit on each speaker

1 unit each in the front corners of the listening room, left and right

1 unit at the wall behind the seat

Proven Positioning Variants



9 x PICCOLO PROTECTOR:

1 unit (master) on a HiFi component or between the speakers

1 unit on each speaker

1 unit each in the front corners of the listening room, left and right

1 unit at the wall behind the seat

1 unit each left and right at the side walls above the seat

1 unit centrally at the front wall

Setting up the PICCOLO PROTECTOR

One unit of the **PICCOLO PROTECTOR** set is labeled as **MASTER**. The MASTER has three power levels to simply adjust GIGA CANCELING 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

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: Base setting other units

For each unit: **Connect antenna** (upright position), set the switch to base setting 0.

All units of the PICCOLO PROTECTOR set should be connected to the grid via a 12V power supply once a year for 15 minutes.

3. Step: Optimal Positioning

See separate pages 4 - 10.

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

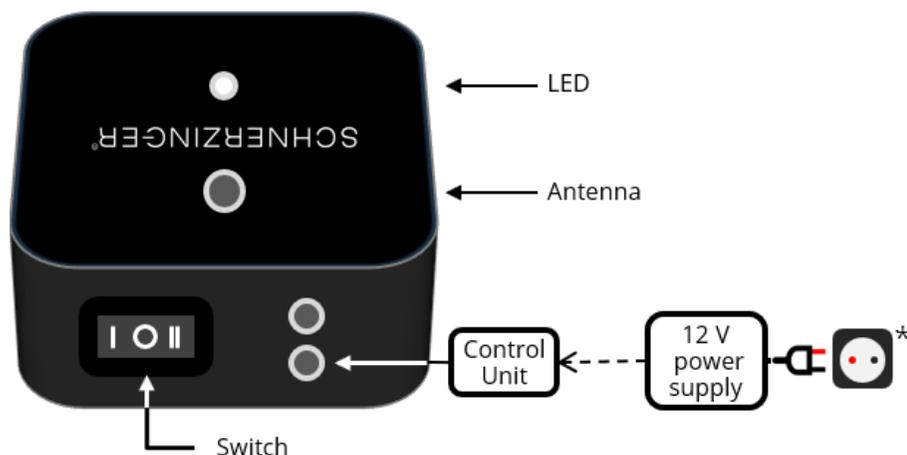
If power level 1 is not sufficient for the present interference field spectrum, 2 additional power levels can be activated. This requires the permanent connection of the 12V power supply* to the CONTROL UNIT and the grid. The 12 Volt power supply should be connected to a power circuit separate from the HiFi 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

The switches of all units of the PICCOLO PROTECTOR set remain in base setting 0.



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

Lasting Effect of the PICCOLO PROTECTOR

The **PICCOLO PROTECTOR** 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 PICCOLO PROTECTOR, the buffering effect absolutely has to be considered.

If the PICCOLO PROTECTOR 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 MASTER resp. Additionally remove the antennas of all units, place the units on the floor and set the switches to position 2. Keep these conditions for several hours, preferably overnight. This way you achieve that the PICCOLO PROTECTOR has no effect any more.

Upon recommissioning the interfering fields will be cleared again fast.

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