

EMI 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 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

EMI PROTECTOR

CONTROL UNIT (COUA)

12V Power Supply, cable length 1,5m

3,5mm jack extension cable 5m

Antenna (small and big version)

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

EMI PROTECTOR 16.2 x 16.2 x 7.5 (without antenna), 3.8

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 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.

EMI PROTECTOR

Like all other PROTECTORS the **EMI PROTECTOR** uses the trendsetting GIGA CANCELLING technology. It focuses the performance on its immediate surroundings and effectively protects it from losing sound quality due to high frequency interfering fields. Thus it is suitable for application at critical points in the listening room, such as between the speakers, with the Hi-Fi equipment or at the listening position.

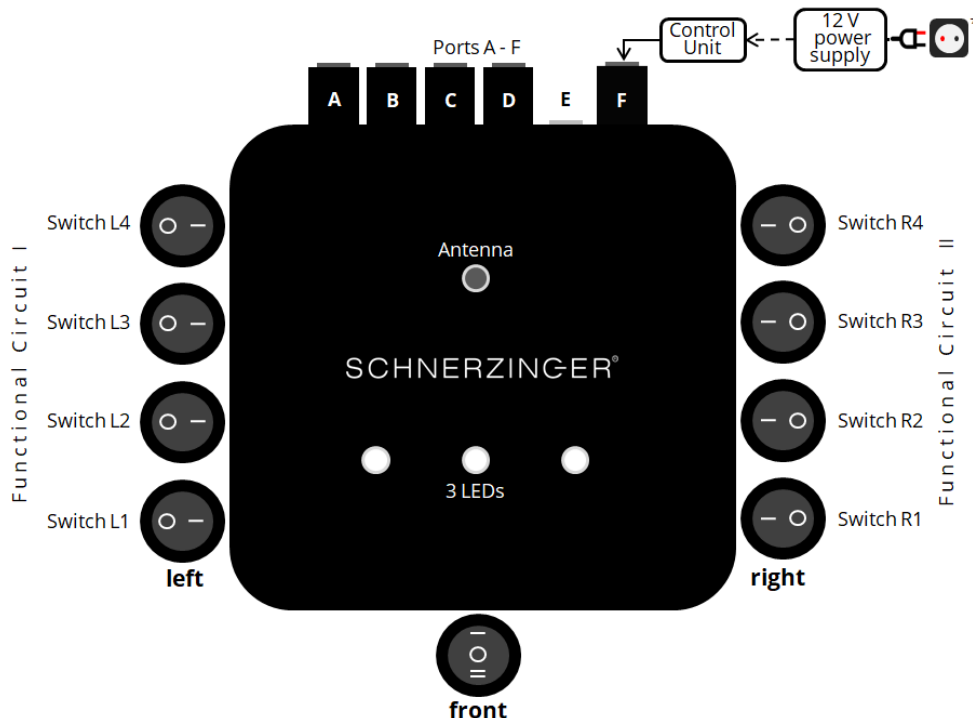
Setting up the EMI PROTECTOR

The **EMI PROTECTOR** has three power levels and two functional circuits to simply adjust bandwidth and clock rate of GIGA CANCELLING technology via toggle switches. This makes it possible to adapt to any interference field spectrum. The change in bandwidth extends or decreases the detection range, changing the clock rate the processing speed.

The rule is: the narrower the bandwidth, the higher the efficiency - the smaller the detection range. The lower the clock rate, the higher the extinction rate - the less interference frequencies are detected.

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.



6 steps to adapt to the interference field spectrum

1. Step: Base setting

Usually (power level 1), the EMI PROTECTOR 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 EMI PROTECTOR, without 12V power supply.

The other ports are reserved for PROFESSIONAL LINE accessories. The optional EMI PROTECTOR BOOSTER will be connected to port E. Set all 9 switches to base setting 0.

2. Step: Optimal Positioning

Recommended placement:

- 1) In the middle between, in front of or behind the speakers
- 2) Next to the hi-fi equipment
- 3) Behind the listening position

Test a heightened positioning (1,20 – 1,70 m height) in each case.

3. Step: Switch in front in position 0 - power level 1

Start with switch setting 0 = power level 1 – with CONTROL UNIT, **without** 12V power supply.

Setting up the EMI PROTECTOR

4. Step: Switches left:

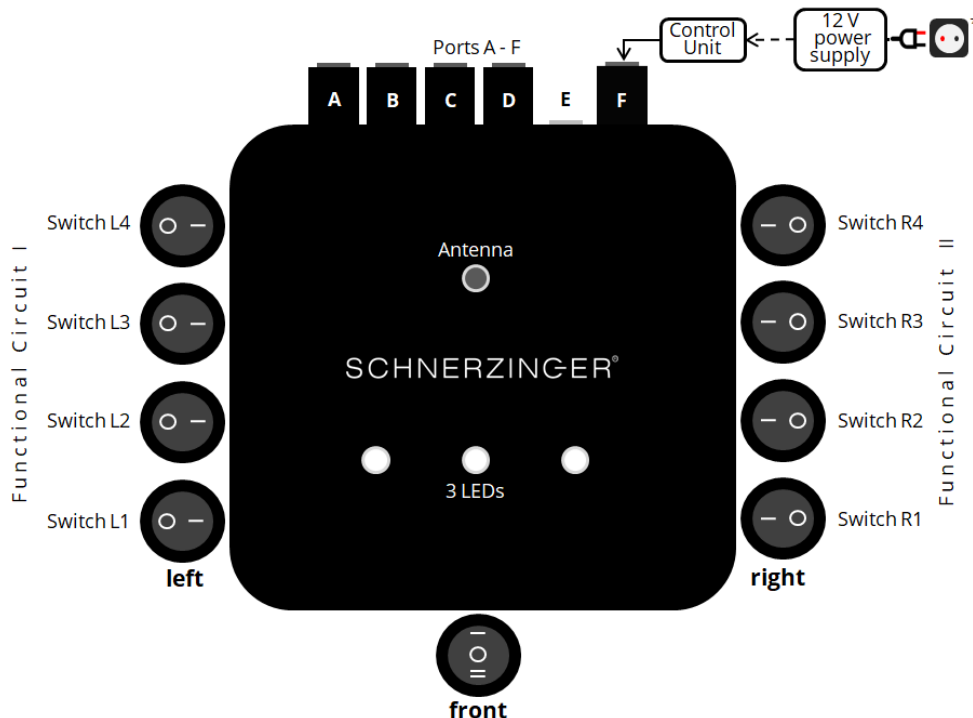
Functional circuit I – setting the **bandwidth**

Switches: L1 = narrow to L4 = wide

Starting from the base setting the switches L1 - L4 will be set sequentially from position 0 to position 1. Each step will increase the bandwidth.

If the bandwidth is too low, the best possible effect will not be reached yet. If the bandwidth is too high, even a sound degradation may occur.

The test ends, when the subsequent step won't achieve a better result.



6 steps to adapt to the interference field spectrum

5. Step: Switches right:

Functional circuit II – setting the **clocking**

Switches: R1 = low to R4 = high

Starting from the base setting the switches R1 - R4 will be set sequentially from position 0 to position 1. Each step will increase the clocking pace.

If the pace is too low, the best possible effect will not be reached yet. If the pace is too high, even a sound degradation may occur.

The test ends, when the subsequent step won't achieve a better result.

6. 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.

Do not change the previously tested switch setting of the functional circuits I and II!

Activate power levels 2 and 3 with the front switch. Check the result compared to switch position 0 (**without 12V power supply**). If the result improves with power level 2 or 3, it is recommended to repeat steps 4 and 5 with the best power level.

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 EMI PROTECTOR

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

If the EMI 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 EMI PROTECTOR resp. Additionally remove the antenna, place the unit on the floor and set the switch in front to position 2. Keep these conditions for several hours, preferably overnight. This way you achieve that the EMI PROTECTOR has no effect any more.

Upon recommissioning the interfering fields will be cleared again fast.

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