

# LAN PROTECTOR

Welcome to the SCHNERZINGER world.

Thank you very much for purchasing a SCHNERZINGER product.

Please take sufficient time to read the information in this manual. You will find important notes on how to use your product correctly and will hear that the system will demonstrate its full effectiveness accordingly.

We wish you great enjoyment with your new SCHNERZINGER product.

In addition to the electrosmog pollution present on the power grid, the interference carried through the network belongs to the most significant sound killers.

If a device in the audio system (e.g., a streamer) is connected to the network, the disturbances present on the network have free access into the connected hi-fi component and from there - traveling through the connecting cables - directly into the other connected devices. It makes no difference whether music signals or only control commands are being sent through the lines.

The LAN PROTECTOR elevates the quality of music playback via digital media to the next level, and for the first time places it on equal footing with the analog elegance of classic hi-fi systems.

Just like the GRID PROTECTOR, the LAN PROTECTOR impresses with the highly efficient performance of the Schnerzinger GIGA CANCELING technology.



## Package contents:

LAN PROTECTOR

5-Port network Switch

2x 1,5 m LAN patch cables

Antenna

12V Power supply (cable length 1,5 m)

Extension cable for 12V Power supply (3 m)

Certificate

## Dimensions:

16,3 x 16,3 x 7,7 mm

Antenna: 11 cm

## Weight:

4 kg

## Ports:

1x RJ45 LAN port

1x DC socket

1x USB-A port

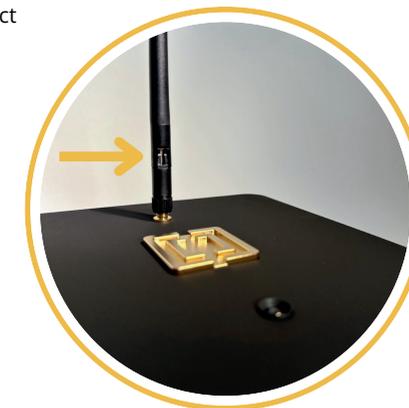
1x SMA 50Ω socket

## Installation of the antenna

All antennas of all PROTECTOR models (including older versions) have a pronounced directional characteristic. Therefore, special attention must be paid to correct installation.

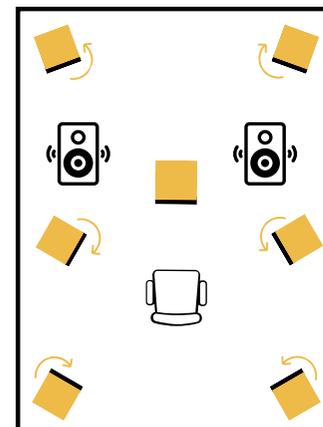
The **open angled joint** of the antenna points directly **forward** toward the LED. For verification: the antenna can be tilted forward toward the LED.

(After the antenna is firmly screwed on, continue turning the upper part clockwise until the angle joint faces forward toward the LED.)



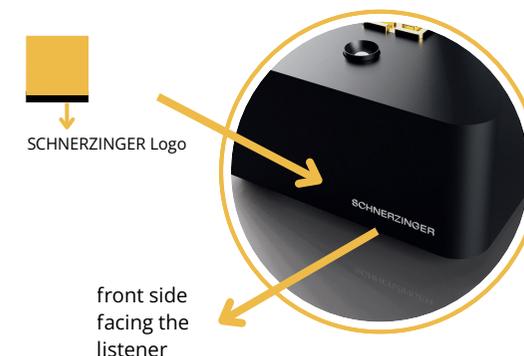
## Placement in the room

All SCHNERZINGER PROTECTOR units should have the same orientation: **the front of the device should always face the listening position.**



The PROTECTOR units should always be positioned with the SCHNERZINGER logo or the front of the device facing the listener - even for units placed behind or to the side of the listener.

The orientation of the PROTECTORS can have a noticeable effect on performance.



## Connection to the network

The LAN PROTECTOR itself has no function for signal transmission—therefore, it is not connected directly to a hi-fi device.

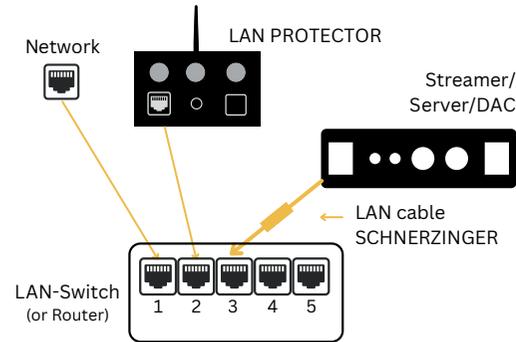
### Important:

We recommend **using the included switch** to connect it to the network.

The use of existing high-end switches or LAN conditioners may affect the performance of the LAN PROTECTOR due to the filters integrated in those devices.

All connections can generally be made using standard network cables. However, for the connection to the digital player, we explicitly recommend using a SCHNERZINGER LAN cable.

Thanks to its integrated BIDIRECTIONAL BARRIER, it closes off - right down to the very last meter - the existing entry point for sound-impairing high-frequency interference potentials from the immediate surroundings, which could otherwise penetrate the subsequent signal path through this cable connection.



## Setting up step by step

### Operation initially without the 12V power supply – the LED will not light up.

In addition to automatic adaptation to changing interference conditions, the system can be individually adjusted via the rear toggle switches to suit the local environment.

#### default setting

All 3 switches in the default position 0, the LED is off.

The POWER switch usually remains in the default position 0.

#### switch 1 - bandwidth

default position 0 > listen

change to position I > listen

change to position II > listen

Keep the settings that gives the best result.

#### switch 2 - clocking

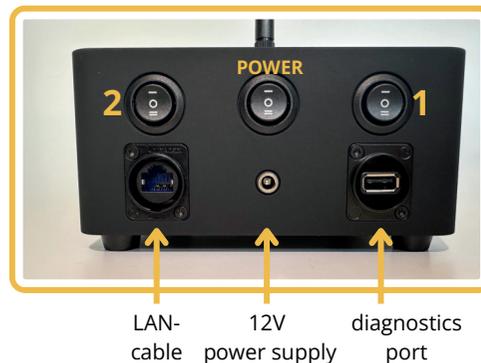
default position 0 > listen

change to position I > listen

change to position II > listen

Keep the settings that gives the best result.

In most cases, the adjustment is now complete.



## Booster:

If the default settings are not sufficient for the present interference spectrum, the 12 V power supply must be permanently connected to the grid.

It should be connected to a power circuit separate from the Hi-Fi system, ideally on a different phase of the household grid.

### When connecting to the power outlet, note:

The phase (indicated on the plug by a silver dot) must match the phase of the socket. This can be determined with a phase tester.



Do not change the optimal switch settings for bandwidth and clocking determined in the previous steps.

### POWER switch

change to position I (LED remains off) > listen

change to position II (LED lights up) > listen

Keep the settings that gives the best result.



### Additional information

The procedure for setting the switches described on the previous pages is a recommendation and, in most cases, the most effective method. All combinations of switch positions are allowed; the device will not be damaged by trying different settings.

If you want to listen to how your system sounds without the LAN PROTECTOR after some time, be sure to account for its buffering effect. A LAN PROTECTOR that is only briefly switched off will continue to have an effect. Disconnect the LAN PROTECTOR from the mains (and also the 12V power supply, if present). Remove the antenna, place the device on the floor (preferably lying on its side), and set the middle POWER switch to position 0. Keep this state for several hours, ideally overnight. This ensures that the LAN PROTECTOR no longer has an effect. Once reconnected, interference will be quickly cleared again.

To maintain its performance, the LAN PROTECTOR should be connected to the mains via the 12V power supply once a year for about 15 minutes. During this procedure, all switches should be set to position II (LED on).

In case of operational issues, please contact your SCHNERZINGER dealer. Do not attempt to repair or open the device yourself; doing so will void your manufacturer's warranty.

Enjoy your listening experience!