Fohhn
colors of sound

User manual

Media
Scale-1 PoE+



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1. Introduction

Please read this user manual carefully and familiarize yourself with your product before using it for the first time. For your own safety and to ensure a long service life for your product, follow the instructions, safety precautions, and warnings in this user manual. Ignoring these instructions may result in damage to the product and personal injury.

This document is intended exclusively for qualified specialists or personnel with appropriate technical training. The information contained herein is intended for the installation and maintenance of this product and requires a thorough understanding of the technical aspects and applicable safety standards. By using this product, you agree that you have the necessary professional competence to install or maintain it safely and properly. Any actions outside your scope of authority may pose risks and are not recommended. If you have any doubts or questions, please contact our technical support or contact authorized specialist retailers. The information presented here is intended as ancillary advice and does not affect the user's ultimate responsibility to ensure safe operation on site.

2. Important safety information

Please read and follow these safety instructions and any other instructions given for your Fohhn products before using or installing them. Always keep the instructions near the devices. Reading them does not replace the need for awareness of and compliance with currently applicable national safety regulations and standards, or the observance of safe on-site working methods. All information published here is based on data that was available at the time of publication. We expressly reserve the right to make any changes.

2.1. Explanation of terms



DANGER

This signal word indicates a hazard with a high-risk level, which, if not avoided, could result in death or serious injury.



WARNING

This signal word indicates a hazard with a medium risk level, which, if not avoided, could result in death or serious injury.



CAUTION

This signal word indicates a hazard with a lower risk level, which, if not avoided, could result in minor or moderate injury.



NOTICE

This signal word indicates a hazard that may result in damage to the product if the measures are not followed.

2.2. General safety instructions

All components required for the mounting or suspension of a Fohhn system have been designed and constructed in accordance and compliance with the following regulations that are applicable in Germany: DGUV V17 (formerly BGV-C1), DGUV I215-313 (formerly BGI 810-3), DIN EN 1993-1-1 and DIN EN 1999-1-1.



DANGER

To avoid danger to life or limb, please ensure that all personnel involved in installing or deconstructing such a system have read and understood the contents of this user manual. All personnel should be aware of local regulations concerning workplace safety. It is strongly recommended to wear suitable personal protective equipment during installation.

WARNING

To prevent injuries from a collapsing or falling system,

- the device must be securely mounted in accordance with the installation instructions and the applicable safety guidelines. Only use the recommended, original Fohhn mounting accessories and never exceed their maximum load capacity.
- the load limit of any component used to suspend the system (including shackles, chains and hoists) must not be exceeded. In order to comply with local safety regulations, these load limits may have to be recalculated and, if necessary, reduced based on the underlying safety factors (operating coefficients)
- the device must be regularly inspected for any signs of wear or loosening of the rigging connections.
- it is necessary to ensure that the mounting points on a building, scaffolding or truss structure have sufficient load-bearing capacity and are structurally viable.
- all components and devices must be visually inspected before installation. Any component showing signs of deformation, cracks, corrosion, fractured welds or other signs of wear must not be used under any circumstances.
- No one is allowed to climb on flown or stacked loudspeaker systems.
- it is strongly recommended that a flown (loudspeaker) system should be landed and dismounted if local wind intensity is equal or greater than 6 Bft (Beaufort Scale).

WARNING

To prevent injury through accidents, the stability of the entire system (e.g. during assembly, in a vertical stack or when using a pole-mounted flange) must be guaranteed. Make sure that the system cannot topple over (e.g. as the result of a sloping surface or wind) and that it is protected against being hit from people or vehicles, for example.

CAUTION

To avoid injuries,

- The device must be stored, installed and operated out of the reach of children.
- the device must be taken out of operation, marked appropriately and protected against accidental use if it shows visible signs of damage, appears to contain loose parts, is not working correctly or has been subjected to poor transportation conditions (e.g. with unsuitable packaging). In this case, contact your Fohhn retailer and the transport company immediately.

2.3. Acoustic safety instructions

WARNING

Fohhn systems can generate very high sound pressure levels that can cause irreparable hearing damage. To avoid potential damage to your hearing, never stand in the immediate vicinity of the system when it is in use. Keep more than 5 meters away from powerful Fohhn systems, but also at least 1 meter away from smaller ones for the near field or smaller interior spaces.

To prevent both hearing impairment and damage to your Fohhn systems, avoid the following while the device is in operation:

- acoustic feedback
- high powered, permanently distorted signals
- impulse noises, which may occur when some other device in the signal chain is switched on or off, connected or disconnected from the system (e.g. a mixing console, an audio matrix, or a controller)

2.4. Electrical safety instructions

All Fohhn products that are or contain Fohhn power amplifiers are protection class 1 appliances. They are built and certified in accordance with the VDE safety measures for electronic devices and, safety-wise, leave our factory in perfect condition. The devices comply with all currently applicable EMC directives: Confirmed by the attached CE marking.

WARNING

To minimize the risk of electric shock,

- the device enclosure must never be opened. It does not contain any components that can be repaired by the user. In the case of a defect, please consult qualified service personnel and/or the Fohhn retailer.

To minimize the risk of an electric shock or fire,

- the device may only be used in accordance with its specified IP code.
- ventilation slots or cooling surfaces must not be covered with objects (e.g. protective rain covers).

2.5. Connections and wiring

WARNING

Please note the following when wiring up your system:

- Wiring of loudspeaker systems should only be carried out by suitably qualified personnel.
- Only use professional and properly functioning cabling and connector materials.
- Only use properly shielded plugs and cables with a sufficient cross section.
- Only use power cables with a fully intact earthing.
- Protect any laid cables from unnecessary traction.
- Never use any signal or power cables for mounting, hoisting or securing a system.
- Note the respective pin assignment of audio and data cabling.

2.6. Operating conditions

WARNING

The device should be immediately inspected by a Fohhn approved service partner if

- a foreign body or liquid has got into the interior of the device,
- the device is not working normally i.e. it is showing marked differences in performance,
- the device is damaged (e.g. after a fall).

CAUTION

Please observe the following instructions when operating your Fohhn system:

- The permitted ambient temperature of the device during operation ranges fram 0°C to +40 °C. A short period of use outside this temperature range is possible, but not advisable.
- The device is intended for use in a dry environment with normal levels of dust and humidity in the air. Please note the IP code.
- Never expose the device to any aggressive chemical fluids or vapors.
- Always make sure that heat can be dissipated via the rear surface of the device enclosure. Maintain these gaps: left/right side >5 cm, back >10 cm, top >10 cm.
- Always make sure that the device is well ventilated.

Information on abnormal operation: If the permissible operating temperature of a powered Fohhn device (active loudspeaker system or amplifier) is too high (over 75 °C), the device will shut down automatically to protect itself. As soon as the temperature returns to within the normal operating range, the device will automatically turn back on. The temperature of the Fohhn system can be monitored in Fohhn Audio Soft. Shutdown is getting more likely if the product is exposed to direct sunlight or very high environmental temperatures.

2.7. Storage and transportation



NOTICE

Please note the following information:

- The device should only be transported in its dedicated transport case or the manufacturer's packaging.
- Store the device in a dry environment with a constant ambient temperature to avoid condensation.
- The permitted ambient temperature range for storing the device is -10 °C to +70 °C.
- Due to fluctuations in temperature during transportation and storage, condensation may start to build up on the surface of the device. Before operating the device, examine its surface for any signs of moisture. If this is the case, allow the unpacked device to acclimatise for two hours in the environmental temperature before using it.

3. The product

3.1. Product description

Scale-1 PoE+ is a compact, versatile loudspeaker system with woofer, dome tweeter and Fohhn Sub Extension, which enables broadband reproduction with powerful bass - even without an additional subwoofer. It is designed as a point source in an elegant line source enclosure and can be ordered in custom length. The PoE+ version enables Power over Ethernet, Dante audio, DSP control, and IT-friendly monitoring via a single network cable.

- Active system (Power over Ethernet)
- PoE+ power: 30 W (Class 4, 802.3at)
- Tested with common Pro AV PoE switches
- Dante/AES67 support
- Fohhn DSP inside
- Monitoring via UDP
- Easy integration into media control systems (Creston plug-in, Q-Sys)
- 4" woofer / 0.75" dome tweeter / Fohhn Sub Extension
- Default dimensions (w × h × d): 133 × 355 × 128 mm
- Flexible mounting thanks to continuous T-slot on the back

For more information on PoE Technology, the PoE plattform and the various classifications, please visit the **Technologies** section on our website.

3.2. Scope of supply

Every Fohhn product is examined to the highest quality and safety standards before despatch. Please examine your new product carefully for any signs of damage that may have occurred during transportation and, if necessary, inform your Fohhn retailer and the transport company immediately. Please also check that the packaging includes all components belonging to the product. If anything is missing, please let your Fohhn retailer know immediately.

Your Fohhn system includes:

- 1 × Fohhn loudspeaker system Scale-1 PoE+
- 2 × screws and 2 × slot nuts for attaching to mounting bracket
- 1 × operating instructions with download link for user manual

4. Commissioning

4.1. Installation

For mounting, the loudspeaker has a continuous T-slot on the back of the enclosure. Along this T-slot, cables can be routed, stand, wall, and ceiling brackets can be installed, or additional accessories such as safety brackets and flying adapters can be mounted. You can find the corresponding brackets for this product on our website under the respective product in the **Accessories** section. The loudspeaker can be attached to the bracket using the included slot nuts and screws.

4.1.1. Mounting slot nuts

The continuous T-slot on the back of the enclosure allows flexible mounting along the entire length of the loudspeaker. You will generally need 2 slot nuts to attach the loudspeaker to the wall or ceiling bracket. For more information on attaching the loudspeaker to the bracket and on the exact position of the slot nuts, please refer to the separate bracket manual and the technical drawing of the bracket. The slot nuts are inserted as follows:

1. Insert the slot nut into the T-slot.



2. Press the slot nut into the T-slot with light pressure.



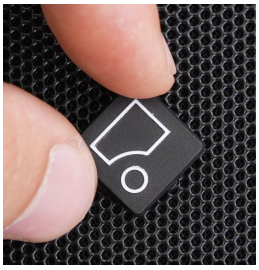
3. Align the slot nut correctly (with the ball facing inwards) so that a screw can be screwed in. A screwdriver or an Allen key can be used for this purpose.



4.1.2. Rotating the logo

If the loudspeaker logo is not positioned correctly, it can be rotated. To rotate a logo by 90 degrees, proceed as follows:

1. Grasp the logo with your index finger and thumb and rotate it in any direction.



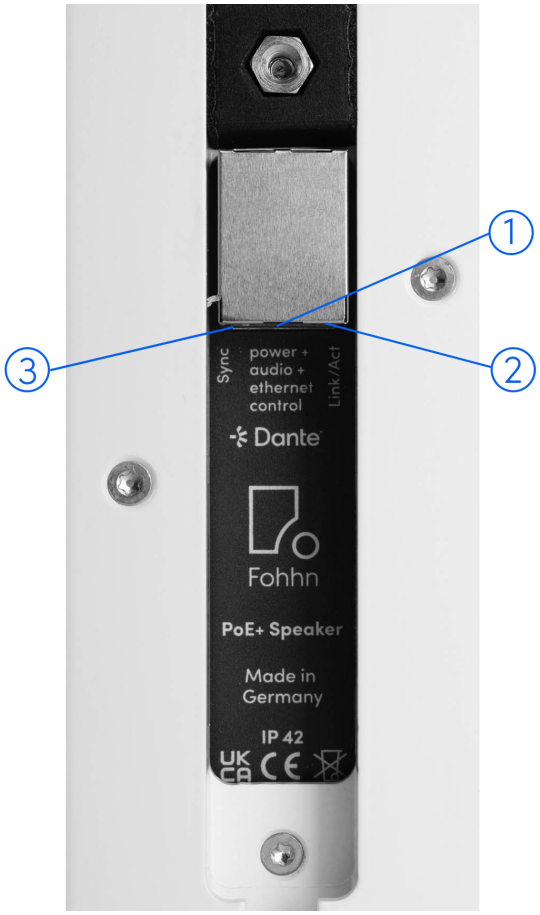
2. Check the alignment and, if it is correct, release the logo. Make sure that the logo clicks into place properly to prevent unwanted noise (e.g., rattling).

TIP
You can rotate the logo in 90° steps.

4.2. Connections and status displays

IMPORTANT
The cables must be connected by qualified personnel while the system is turned off.

4.2.1. Connections and status LEDs on the rear of the enclosure



(1) RJ-45 jack

(2) **Link/Act:** This LED flashes when a connection to the network is established.

(3) **Sync:** This LED lights up when the loudspeaker is receiving power via PoE and/or when the loudspeaker is connected to the network.

4.2.2. Connections and status LEDs on the front

Ready: This LED lights up blue when the PoE loudspeaker is ready for use. The LED is visible through the front grille and can be deactivated in Fohhn Audio Soft if required.

4.3. Configuration and monitoring

Once you have connected your loudspeaker to a PoE switch of the appropriate power class via a network cable, the PoE loudspeaker is ready for operation. However, if you want to change configurations such as routing, EQ or level, load a new preset or monitor the loudspeaker using software, you will need a Windows PC with the Fohhn Audio Soft control software installed (free download on the Fohhn website).

4.3.1. Prerequisites

- Windows PC with Ethernet interface for configuring PoE loudspeaker systems
- The following software must be installed in advance:
  - **Dante Controller 4.14** or a newer version
    https://www.getdante.com/products/software-essentials/dante-controller/
    https://www.getdante.com/

IMPORTANT
Please read the separate user manual in advance.

- **Fohhn Audio Soft 6.5.0** or a newer version
  https://www.fohhn.com/de/serien/software

> **IMPORTANT**
> Please read the separate user manual in advance.

- A PoE+ Ethernet switch (IEEE 802.3at) is required for power supply. The PoE loudspeaker system's 100 Mbit Ethernet interface operates according to the 100Base-TX standard.

> **TIP**
> For more information on the performance classes and the corresponding Ethernet switches, please visit our Power over Ethernet technology page.

- The Ethernet network must meet all requirements for Dante Audio. For more information, please contact Audinate.
  https://www.getdante.com/support/faq/networks-and-switches/
  https://www.getdante.com/support/faq/what-features-are-important-when-purchasing-a-switch/

> **TIP**
> The PoE loudspeaker system has only one connection option: an RJ-45 Ethernet network interface, which is used for power, control, and audio. The PoE loudspeaker systems can only be configured via the Ethernet interface.

4.3.2. Firmware update

The PoE loudspeaker system can receive 2 different firmware updates. The Dante firmware is updated via the Dante Controller software. Fohhn Audio Soft must be used for the Fohhn DSP firmware.

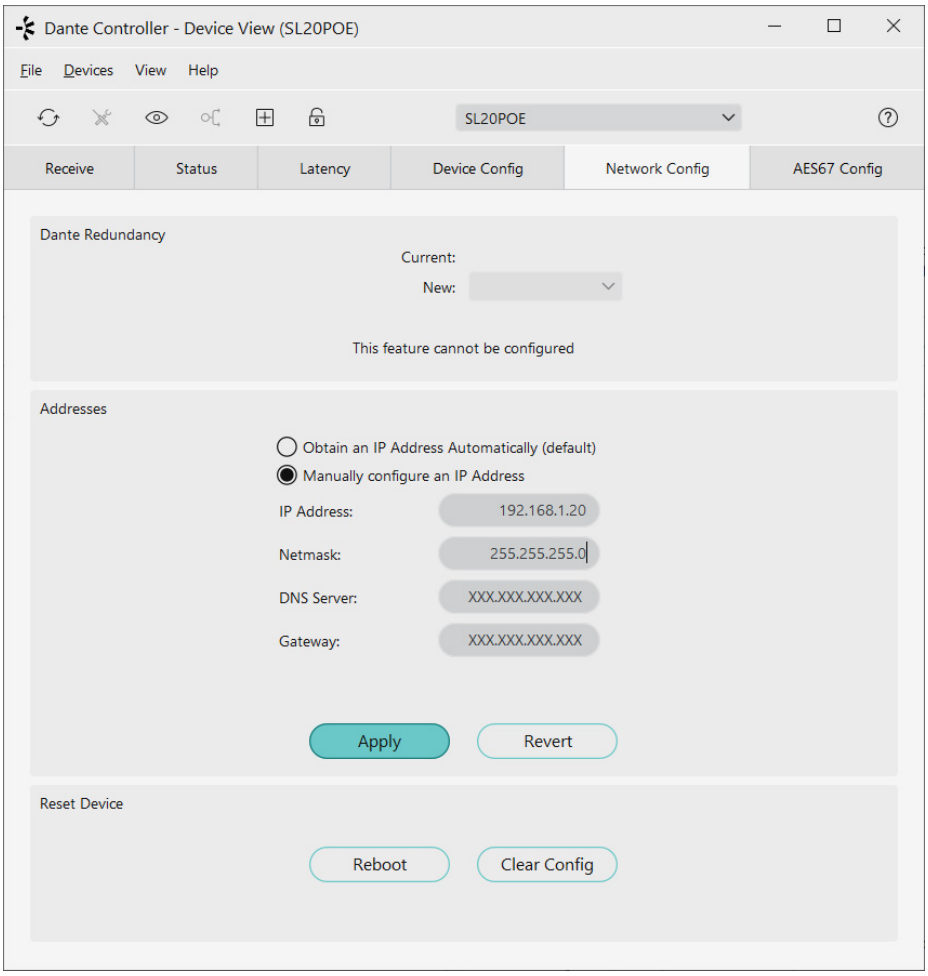
4.4. Network configuration

4.4.1. Changing the IP address

On delivery, the PoE loudspeaker obtains its IP address from a DHCP server or assigns itself a link-local IP address if no DHCP server is available.

Any changes to the IP configuration must be made in the Dante Controller software.

1. Open the software Dante Controller.
2. Select the device whose IP address you want to change.
3. On the **Network Config** tab select → **Manually configure an IP Address**.
4. Enter the IP address.
5. Click **Apply**.



Changing the IP address (example: SL-20 PoE+)

TIP

Dante Audio and the Fohhn Net control system use the same IP address.

4.4.2. Resetting the IP address

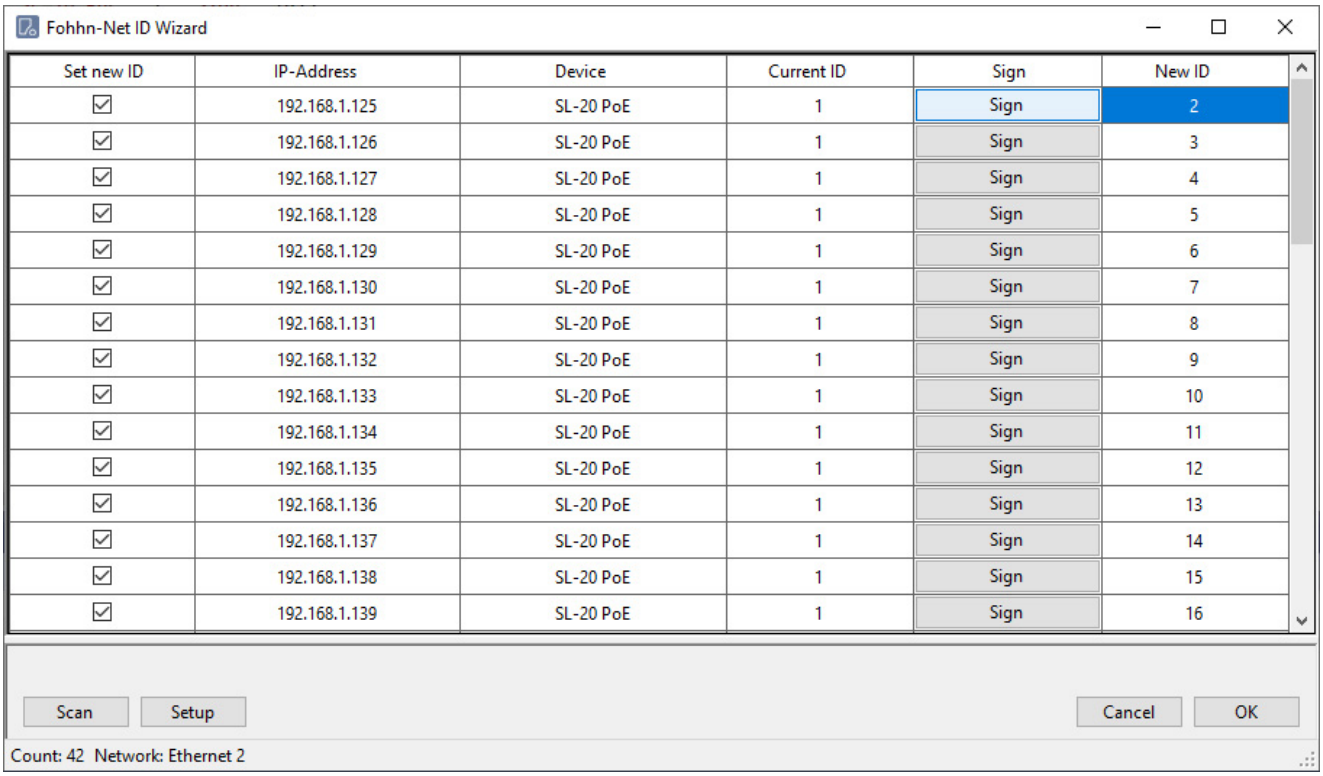
If the PoE loudspeaker is configured to a static IP address that you do not know, you can find instructions on how to reset it here:

https://www.getdante.com/support/faq/how-can-i-locate-a-dante-device-with-a-static-ip-address-in-an-unknown-subnet/

4.4.3. Fohhn Net ID

The Fohhn Net ID is a unique identifier for Fohhn devices, regardless of which interface is used to access the devices. It is a number between 1 and 254. This ID is independent of the IP address. By default, all Fohhn devices have the ID 1.

To display all devices in Fohhn Audio Soft, each PoE loudspeaker requires a different Fohhn Net ID. To quickly and automatically set the Fohhn Net ID on multiple PoE loudspeakers, you can use the Fohhn ID Wizard. Start it either from the Windows Start menu or in Fohhn Audio Soft via the **Extras** menu item.



Fohhn Net ID (example: SL-20 PoE+)

With the **Sign** function, you can make the blue LED in the PoE loudspeaker flash to identify it.

If all PoE loudspeakers you want to configure at the same time have their own ID, confirm with **OK**.

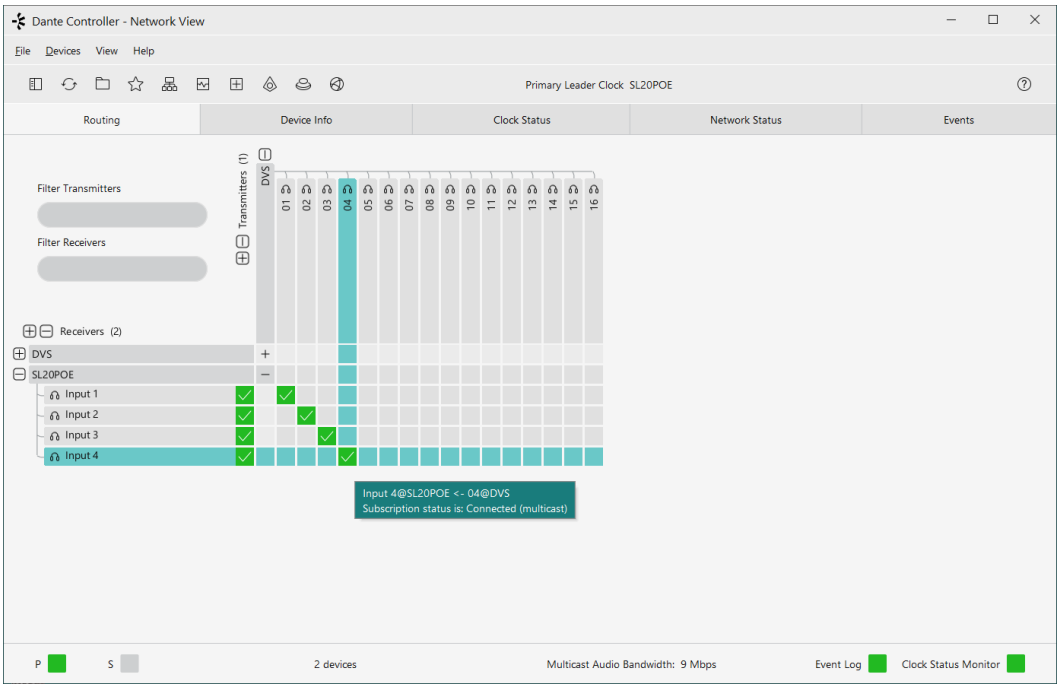


TIP

The Fohhn Net ID can also be changed directly in Fohhn Audio Soft, but Fohhn Audio Soft does not display multiple devices with the same ID. For more information, please refer to the Fohhn Audio Soft user manual.

4.5. Audio configuration

4.5.1. Dante routing



Dante routing (example: SL-20 PoE+)

You can route up to two Dante signals to the PoE loudspeaker system. Both signals are mixed 1:1, allowing a stereo signal to be converted into a mono sum.

IMPORTANT

Please note that to use all 4 input channels, you must update the Fohhn and Dante firmware to version 1.2.0 or later.

TIP

For further information on the Dante Controller software, please refer to the separate Dante Controller user manual.

TIP

Ensure that your source is set to very low volume or muted before setting the routing points. Alternatively, you can reduce the volume on the PoE loudspeaker system itself in Fohhn Audio Soft beforehand.

4.5.2. Fohhn Audio Soft

In Fohhn Audio Soft, you can configure all DSP functions. These include speaker presets for different applications, equalizers, limiters, delay, and volume.



Fohhn Audio Soft (example: SL-20 PoE+)

TIP

Further information on Fohhn Audio Soft can be found in the separate Fohhn Audio Soft user manual, which you can download from the **Help** section within the software.

4.6. Integration into media control systems

The PoE loudspeaker systems can be controlled and monitored via **UDP** on **Port 2101**. The loudspeaker systems accept the Fohhn Net protocol or text commands.

The control commands must be sent with the correct Fohhn Net ID to the IP address configured in the Dante Controller.

For further information, please refer to the manual: Fohhn Net Technical Manual

You can find programming examples and plugins for media controllers on the Fohhn GitHub profile.

https://github.com/Fohhn

The PoE loudspeaker systems are compatible with the Fohhn Q-SYS Dante Device Plugin.

https://github.com/Fohhn/Fohhn-Q-SYS-Dante-Device-Plugin

5. Technical data

Physical features	
enclosure	aluminium
dimensions	133 × 355 × 128 mm
weight[1]	2.7 kg
front design	Front grille with acoustically transparent 3D mesh fabric behind it
standard colors	black (RAL 9005), white (RAL 9016)
coating	powder coated
connectors	1 × RJ45 jack
mounting points	continuous T-slot on the back

[1]weight: net weight without optional equipment

Electroacoustic features	
acoustic design	compact active 2-way loudspeaker with extended bass response
components	4" woofer, 0.75" dome tweeter, Fohhn Sub Extension
SPLmax[1]	100 dB
frequency range[2]	44 Hz - 20 kHz
nominal dispersion (h × v)[3]	140° × 90°

[1]SPLmax: peak, 20 ms with bandpass filtered pink noise signal according to IEC 60268-2 at one octave above the lower limit of the frequency range, with speaker preset

[2]frequency range: –10 dB under anechoic halfspace-conditions, with speaker preset

[3]nominal dispersion: horizontal × vertical at –6 dB

Electronic features	
amplifier technology	Class D - Pure Path Digital PWM
network connection bandwidth	100 Mbit
PoE class[1]	Class 4 (PoE+)
control	Fohhn Audio Soft via network
monitoring	temperature, protect, signals, power supply, Fohhn Net, Fohhn Audio Soft
password protection	yes
power consumption: maximum / idle / standby + Auto Power Save	30 W / 5.5W / 3.3W
integrated Dante modules	Dante Ultimo
protective circuit	overvoltage protection, overcurrent protection, overtemperature protection, short circuit protection, DC protection, soft start and inrush current limitation
cooling	fanless, passive

[1]PoE class: according to IEE 802.3

Environmental conditions	
IP code[1]	IP42
Fohhn Weather Rating 1	standard
operating temperature	0 - 40 °C
storage temperature	–10 - 70°C

Environmental conditions	
maximum relative humidity (non-condensing)	max. 90 %, non-condensing

[1]IP code: according to IEC 60529/ EN 60529

Optional features	
special colors	RAL Classic, RAL Design, NCS, Pantone, Fohhn Texture Design, other color systems on request

CAAD simulation data	
simulation data	EASE, CLF, Fohhn Designer

6. Maintenance measures

Use a dry or slightly damp, well-wrung cloth to clean the product. Do not use cleaning agents containing aggressive chemicals or solvents, as these will damage the product's surface.

7. Servicing and repair

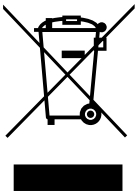
Only persons who have been instructed and trained by Fohhn may carry out servicing and/or repairs. Do not carry out any servicing or repairs on the device.

To find the nearest Fohhn service center, please contact us at the address given at the end of this document.

Keep the packaging of the devices so that, in the event of any damage, it can be returned in its original packaging. This minimizes the risk of transport damage.

8. Disposal

Please note that this product must not be disposed of with household waste but must be taken to a disposal point for electrical/electronic waste. Observe all applicable national or local legal regulations. For more information, please contact your local city office, your local waste transfer station or your local distributor.



9. EU declaration of conformity

We hereby certify that this product complies with the currently applicable standards of the EMC Act and that the CE mark shown here is therefore affixed to the product.



The EU declaration of conformity for this product can be downloaded from the Fohhn website www.fohhn.com under the respective product.

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Engineered and made in Germany

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