

# Media

## Scale-1 PoE+

Active loudspeaker with Power over Ethernet, 4" woofer /  
0.75" dome tweeter / Fohhn Sub Extension



# Media Scale-1 PoE+



Scale-1 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 Scale-1 PoE+ version uses Power over Ethernet and reduces the installation to a single network cable. This delivers audio via Dante and enables remote control of the integrated Fohhn DSP and IT-friendly monitoring.

## Main features

- Active system (Power over Ethernet)
- PoE+ power (30 W RMS)
- Lossless audio transmission with Dante, AES-67
- Easy installation with one single network cable
- Fohhn DSP inside (EQ, delay,...)
- 4" woofer / 0.75" dome tweeter / Fohhn Sub Extension
- Default dimensions: 133 × 355 × 128 mm
- Special colours available (RAL Classic, NCS, Pantone, Fohhn Texture Design)
- Flexible mounting thanks to continuous T-slot at rear
- 2 slot nuts included in scope of delivery
- Monitoring via UDP
- Easy integration into media control system (Plugin Creston, Q-Sys)
- Suitable for immersive audio applications



Available with the following color options



Black



White

Equipped with the following Fohhn technologies



Fohhn Texture  
Design



Fohhn DSP  
inside



Special colors  
optional



Auto Power  
Save

Possible input interfaces for this product

 Dante™

For detailed information about all Fohhn technologies, color options and connections, please visit [www.fohhn.com/en/technologies](http://www.fohhn.com/en/technologies)

# Technical data

Electroacoustic features	
acoustic design	compact active 2-way loudspeaker with extended bass response
components	4" woofer / 0.75" dome tweeter / passive membrane
maximum SPL (1 m)	100 dB
operational mode	Power over Ethernet (PoE+ IEEE 802.3at), active, DSP amplifier, Class-D
frequency range	44 Hz – 20 kHz
nominal dispersion (h × v)	140° x 90°

Physical features	
enclosure	aluminum, powder coated
connectors	RJ45 for Dante Audio and control with 100Base-TX Ethernet with PoE+
dimensions (w × h × d)	133 × 355 × 128 mm
weight	2.7 kg
standard colours	black or white powder-coated
protection class acc. to IEC529/EN60529	IP 42
front design	front grille in enclosure colour
protection grille	ball impact resistant steel grille, powder coated, backed by acoustically transparent 3D mesh
mounting points	continuous T-slot at the rear

Optional features	
optional colours	RAL Classic / NCS / Pantone on request, Fohhn Texture Design

CAAD simulation data	
simulation data	EASE, CLF, Fohhn Designer

Electronic features	
storage temperature	-10 – 70°C
relative humidity	max. 90 %, non-condensing
amplifier type	Pure Path Digital PWM
support for AES67	yes
DSP channels, Fohhn Audio DSP	2
amplifier power	2 x 70 W Peak
frequency response	20 Hz – 20 kHz
input sensitivity	0 dBFS
signal/noise ratio	> 103 dB (A-weighted)
password protection	yes
auto power save	adjustable from 1 s to 12 h, or never active
protective circuit	overvoltage protection, overcurrent protection, overtemperature protection, short circuit protection, DC protection, power-on delay, soft start and inrush current limitation
power supply	Power over Ethernet up to 30 W (PoE+)
power consumption	30 W max / 5.5 W idle / 3.3 W standby
operating temperature	0 – 40 °C
cooling	fanless, passive

Controller	
selective 9-band limiting	Bass / mid / high for sum, tweeter and woofer each
FIR filter	yes
gain	-80 dB – +12 dB
volume	-80 dB – +12 dB
EQ input	10 fully parametric filters, Gain +/-12 dB, Frequency 10 Hz – 20 kHz, Q 0.1 – 100
EQ output	10 fully parametric filters, Gain +/-12 dB, Frequency 10 Hz – 20 kHz, Q 0.1 – 100
selective 3-band limiting	bass / mid / high
X-over	yes
delay input	0 – 200 ms (0 – 70 m)
delay output	0 – 375 ms (0 – 130 m)
system latency	Dante + 1,2 ms
band-specific time constants	yes
filter technology	80-bit double precision

Remote control and remote monitoring	
remote control	Fohhn Audio Soft, Fohhn Net over IP
remote monitoring	temperature, protect, signals, power supply, Fohhn Net, Fohhn Audio Soft, impedance- / loudspeaker monitoring
integration in media control	UDP text protocol, Q-SYS Plugin available, Fohhn Gateway

Connections

signal inputs	1 x 100Base-TX Ethernet (RJ-45) for Dante Audio, Power over Ethernet (PoE+ IEEE 802.3at) and control
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Display

power on / off (standby)	yes
network control	yes

power rating (peak); maximum SPL: 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  
frequency range: -10 dB under anechoic halfspace-conditions with speaker preset  
weight: net weight without optional equipment  
nominal dispersion: horizontal × vertical at -6 dB

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