FOHHN.
SOUNDS PERFECT.
IS PERFECT.

The world of Fohhn

News 2019

EN

MA-4.100

Media DSP Matrix Amplifier for daily business and standardisation in conference rooms



Flexible input allocation, for example:
channel 1 + 2 – media sound
channel 3 – web conference
channel 4 – speaker microphone
(no mixer required)

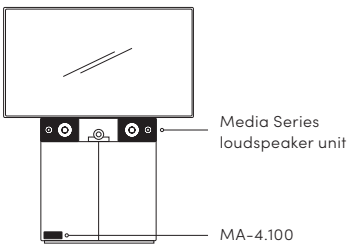


USB C configuration port

This compact digital amplifier with integrated 4 × 4 matrix was developed for media applications and small-scale sound reinforcement.

It is equipped with four switchable analogue line-/microphone inputs. Despite its compact dimensions of 9.5" (1 HU), the new amplifier features the latest generation of Fohhn DSPs – integrated into both inputs and outputs.

Suitable for integration into media boards.



Features

MA-4.100 ANA:
4 analog line/microphone inputs (switchable)

- CLASS D design for low-distortion sound quality with a low energy consumption
- 4 × 100 W peak / 75 W sinus / 4 Ohms output power
- 4 × 4 input-output DSP matrix for easy routing of all signal paths
- Switchable phantom power per input channel
- Extensive input and output DSP processing per channel: 10-band parametric EQ, Compressor, Limiter, High- and Low-Cut Filter, Noise Gate, Delay, Phase, Volume
- Fohhn speaker presets ensure maximum safety, reliability and excellent sound quality.
- Integrated Fohhn-Net interface (RS-485)
- Remote control and -monitoring via Fohhn-Net
- Integration in common control networks via RS-485
- Two freely programmable switching contacts
- Configuration via USB connector
- Temperature-controlled low-noise fan
- Auto Power Save for a minimum standby power demand
- Light weight: approx. 1.2 kg
- Small size: 9.5″/ 1 HU, 171 mm depth
- 100 % engineered and made in Germany

Analog

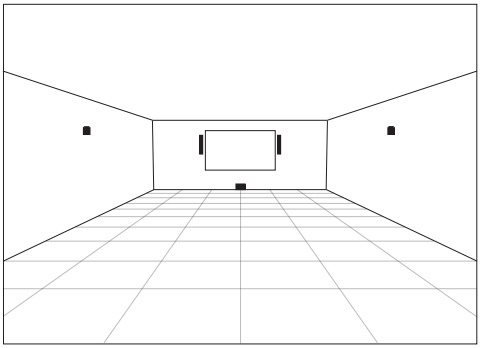
MA-4.100 DAN

The MA-4.100 Media DSP Matrix Amplifier with 4 Dante inputs (no microphone inputs) will be available at a later date.

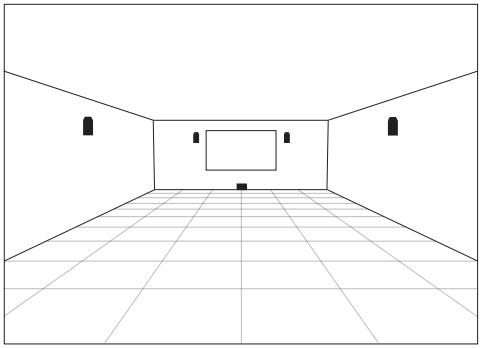
Dante™



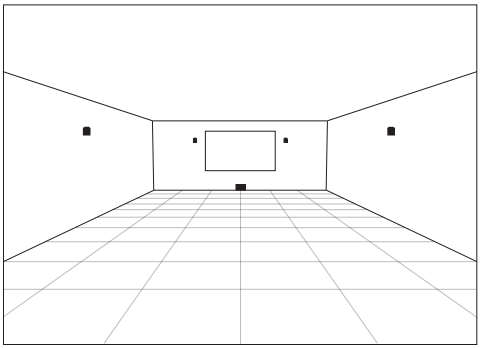
Sample applications



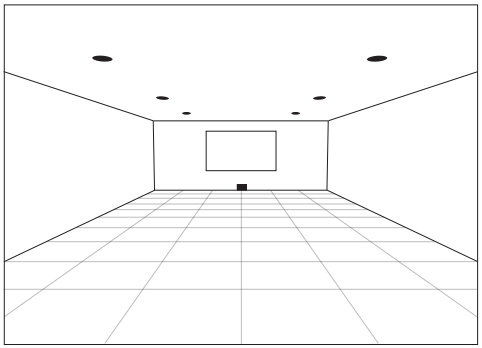
Board meeting room (12 × 6 m, 45 persons)
Output allocation: LX-60 at channel 1, LX-60 at channel 2, 2 × LX-10 at channel 3, AS-06 at channel 4



Large conference room (15 × 6 m, 80 persons)
Output allocation: AT-05 at channel 1, AT-05 at channel 2, 2 × AT-05 at channel 3, AS-06 at channel 4



Small board meeting room (10 × 4 m, design-oriented, 25 persons)
Output allocation: LX-10 at channel 1, LX-10 at channel 2, 2 × LX-10 at channel 3, AS-06 at channel 4



Canteen / meeting lounge (12 × 6 m, 45 persons)
Output allocation: 2 × IG-100 at channel 1, 2 × IG-100 at channel 2, 2 × IG-100 at channel 3, AS-06 at channel 4

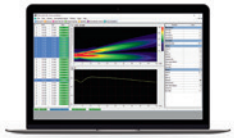
4 × 2000 W
2 × 4000 W



DI-4.2000
DI-2.4000

Unlimited Power

Unlimited Performance



Analog AES/EBU Dante™ OPTOCORE

Our DSP amplifiers have an addition to the family: DI-2.4000 & DI-4.2000.

More power.
More channels.
More flexibility.

Features

- Developed for touring and fixed installations
- Extensive DSP input and output processing
- Highest levels of reliability and operating efficiency
- Microprocessor-controlled power supply, 100-240 V AC, with Power Correction Factor (PFC) and sensory functions for mains voltage, power consumption and temperature
- Auto Power Save for fan-free idling, temperature-controlled fans
- Two configurable switching contacts, one fault contact
- network compatible, remote control, remote monitoring

Inputs and outputs for any requirement

DI amplifiers come with multiple input and output options:

Input Interfaces



Analog



Dante™



AES/EBU (Phoenix 3-pin)



AES/EBU (XLR)



Optocore

Output Interfaces

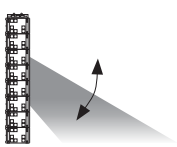


Speakon connectors



Terminal block (Phoenix 4-pin)

Sub arrays with Fohhn Beam Steering



Vertical or horizontal sub array



DI system amplifiers



Fohhn Audio Soft

Focus Venue –
Ready For Touring.

Accessories for our
concert sound system.



Dolly

transport dolly made of steel for 2 × FV-200 or 4 × FV-100,
with braked wheels, can be forklifted



Flying frame

for FV-100 and FV-200, max. load 1,300 kg

Transport cover

for 2 × FV-200 or
4 × FV-100 on a dolly



Available soon:

- **Pullback Frame**
  tilting of array & TV spigot for downfill
- **Stacking Cradle**
  consists of pullback frame and feet

Rain cover (top)

for Focus Venue with flying frame



Rain cover (panel)

for Focus Venue connector panel



PT-70 –
Ready For Action.

Smart accessories
for our plug & play system.



VPT-70 swivel bracket

for PT-70 (stand use and flown applications), with Quicklock system and TV spigot

Wheel board

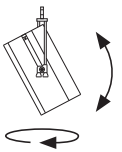
for transportation of 1 × PT-70, fitted with felt cover, equipped with braked wheels





VPT-70 PO swivel bracket

for PT-70, pole-operated





Double Case

for transport of 2 × PT-70, separately removable cover sections, large accessory compartment



Rain cover

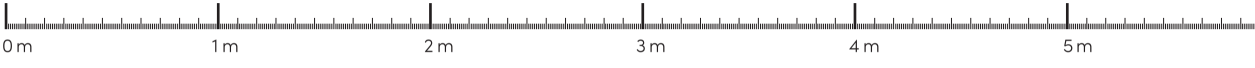
for PT-70

When size matters after all:

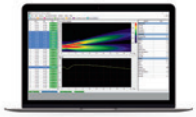
The brand-new Linea Focus DLI-330 and DLI-430 line source systems are available now.

Rooms with most difficult acoustic conditions don't pose a challenge for our award-winning Linea Focus DLI systems.
Here, they are more than welcome.
The next generation of Fohhn Beam Steering Systems stands out in every respect: Intelligent, precise sound reinforcement.
Top results for sound reproduction and speech intelligibility. And, what's more: compatibility with all digital audio networks.





Analog AIREA AES/EBU Dante OPTOCORE



Focus Modular
Goes Digital.



Focus Modular combines powerful sound with modular scalability and an enormous reach. The active speaker system stands out, even when it is not seen – for example, as an invisible part of the scenery. Thus, it comes as no surprise that Focus Modular systems can be found in numerous theatres, concert halls, broadcast productions and live conferences with mobile sound reinforcement.

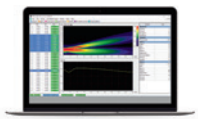
As from 2019, all speaker modules will be equipped with digital signal inputs. In addition, a brand-new passive extension will complement Focus Modular in the low-mid frequency range.

DFM-100
8 × 1″, DSP amp, 8 × 120 W, 90° (h) / 0°-90° (v), SPLmax: 142 dB

DFM-110
16 × 1″, DSP amp, 16 × 120 W, 90° (h) / 0°-90° (v), SPLmax: 148 dB

DFM-400
32 × 4″, DSP amp, 16 × 120 W, 90° (h) / 0°-90° (v), SPLmax: 134 dB

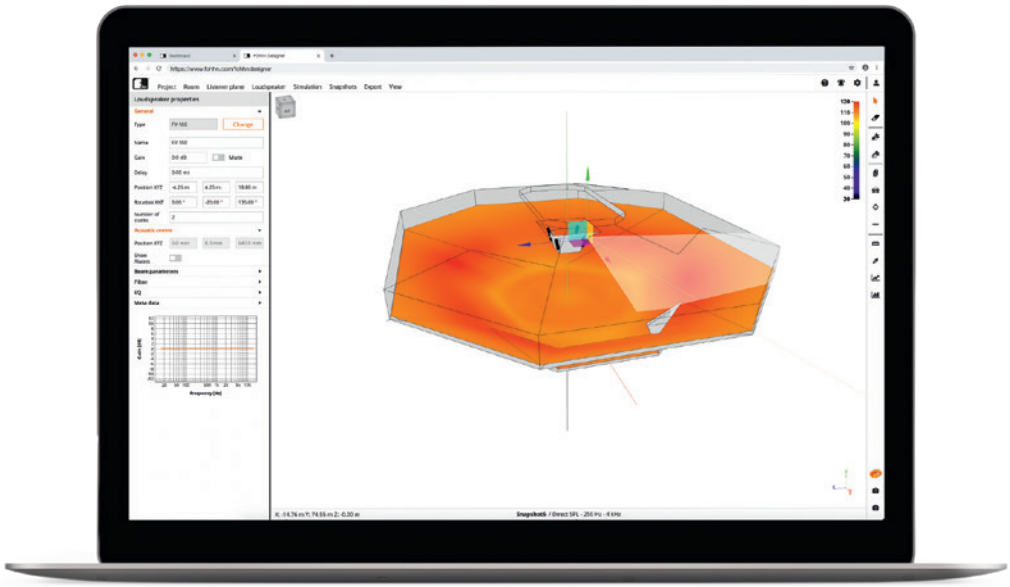
DLM-300
4 × 6,5″, low-mid extension, passive



Analog AIREA AES/EBU Dante

Fohhn Designer

Online Acoustic Simulator

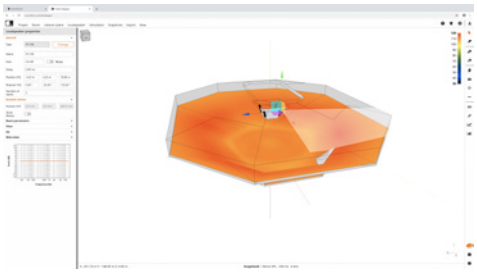


The perfect tool for the development of proper sound reinforcement concepts and the presentation of results. For all projects: from the smallest conference room to the largest arena in the world.

- **Quick results & precise simulation**
- **Web-based & platform-independent**
- **Resource-efficient due to server-side calculations**
- **Fully in-house developed by Fohhn**

Three Steps
to Perfect Results

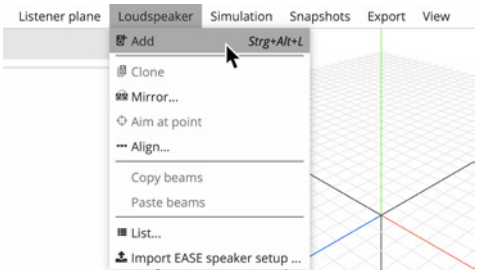
1



The Room Model

- Easier, more intuitive and more stable import of current geometries, or easy creation within the programme
- Creation of listener planes from existing geometries in any form, or via import function
- Assignment of acoustic room characteristics

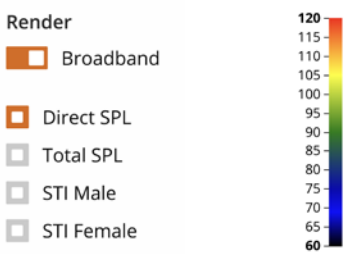
2



The Fohhn Speaker-Setup

- Speaker database with all active and passive Fohhn loudspeakers
- Focus on easy operation
- Native support of Fohhn Beam Steering systems with the usual parameters from Fohhn Audio Soft
- Smart positioning- and alignment tools
- Evolutionary concept development based on so-called snapshots with an intelligent modification history for room and loudspeaker properties, simulation settings and the corresponding results
- Export function for Fohhn Audio Soft projects

3

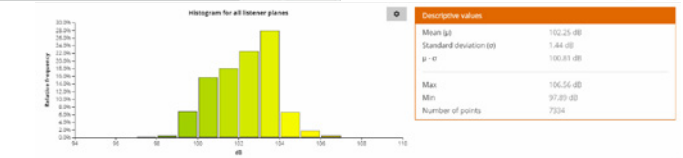


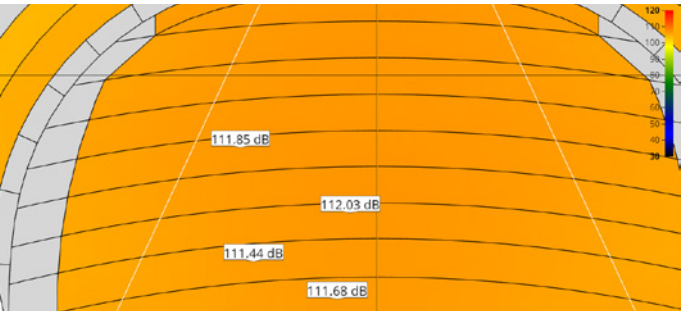
The Simulation & Evaluation

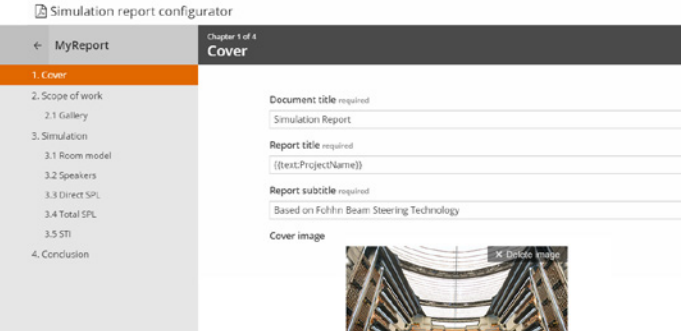
- Frequency-dependent calculation of direct- and total sound level
- Calculation of speech intelligibility (STI Male and Female) in accordance with DIN EN 60268-16
- Elaborate evaluation tools with individual values, spectrum and histograms
- PDF export function

Simulation results
in words and pictures









The Arisono Report Configurator
The configurator lets you create project reports for your customers in an instant: quick, professional and informative!

- Easy wizard for a quick creation of repots
- Automatized inclusion of screenshots and project variables
- Ready-made text templates which offer profound information on the respective project
- Automatized report updates whenever project data is changed
- Comprehensive individualization options including detailed views, evaluations rich in detail, as well as texts and images



Everything Under One Roof.

Since its formation more than 25 years ago, Fohhn Audio AG has been growing steadily. Through the years, our company has been split over six buildings in the Southern German city of Nürtingen, where our products have been developed and manufactured ever since. The planned relocation to our new company headquarters in the *Großer Forst* industrial park in late 2019 will be another highlight and a result of this steady growth. Here, we can join forces and unite the Fohhn family under one roof again.

We – and hence our customers and partners – will benefit from faster response, greater flexibility and effectiveness, fewer logistics and a much higher level of efficiency overall. As a modern centre of innovations, the new building will also include a brand-new Fohhn SoundLab, two additional measurement laboratories and several training rooms.

We are looking forward to your visit!



Top view of the new Fohhn headquarters at Großer Forst 15

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