



THE FOHNN PRODUCT RANGE FOR
DEMANDING FIXED INSTALLATIONS.

SOUNDS PERFECT. IS PERFECT.

Linea Series | Arc Series | Perform Series | Amp Controller Series
Net Remote Series | Planning and Service



Dresden Musical College

FOHNN AUDIO SYSTEMS ARE MORE THAN IMPRESSIVE.

MUSIC TO YOUR EARS. PLEASING ON YOUR EYE. CLEAR IN YOUR MIND.



Dear Fohhn partner,

Fohhn has been manufacturing high-quality audio systems “made in Germany” since 1993 and our company philosophy has always been based around a system concept. Our vision is to develop perfectly adapted audio systems and innovative products that provide genuine solutions for the user – products that boast an outstanding sound quality, design, functionality and operating comfort.

We have therefore extended our product portfolio to include innovative products such as electronically controlled line array speakers, and have expanded our team of project engineers to provide comprehensive advice. This catalogue provides a complete overview of our current range of products for professional fixed installation projects.

Visit our website www.fohnn.com or refer to our product data sheets for more detailed information. You can download all data sheets in PDF format from our website or request a copy from info@fohnn.com. We would be glad to personally answer any questions you may have.

Jochen Schwarz, Qualified Engineer
Chief Executive Fohhn Audio AG

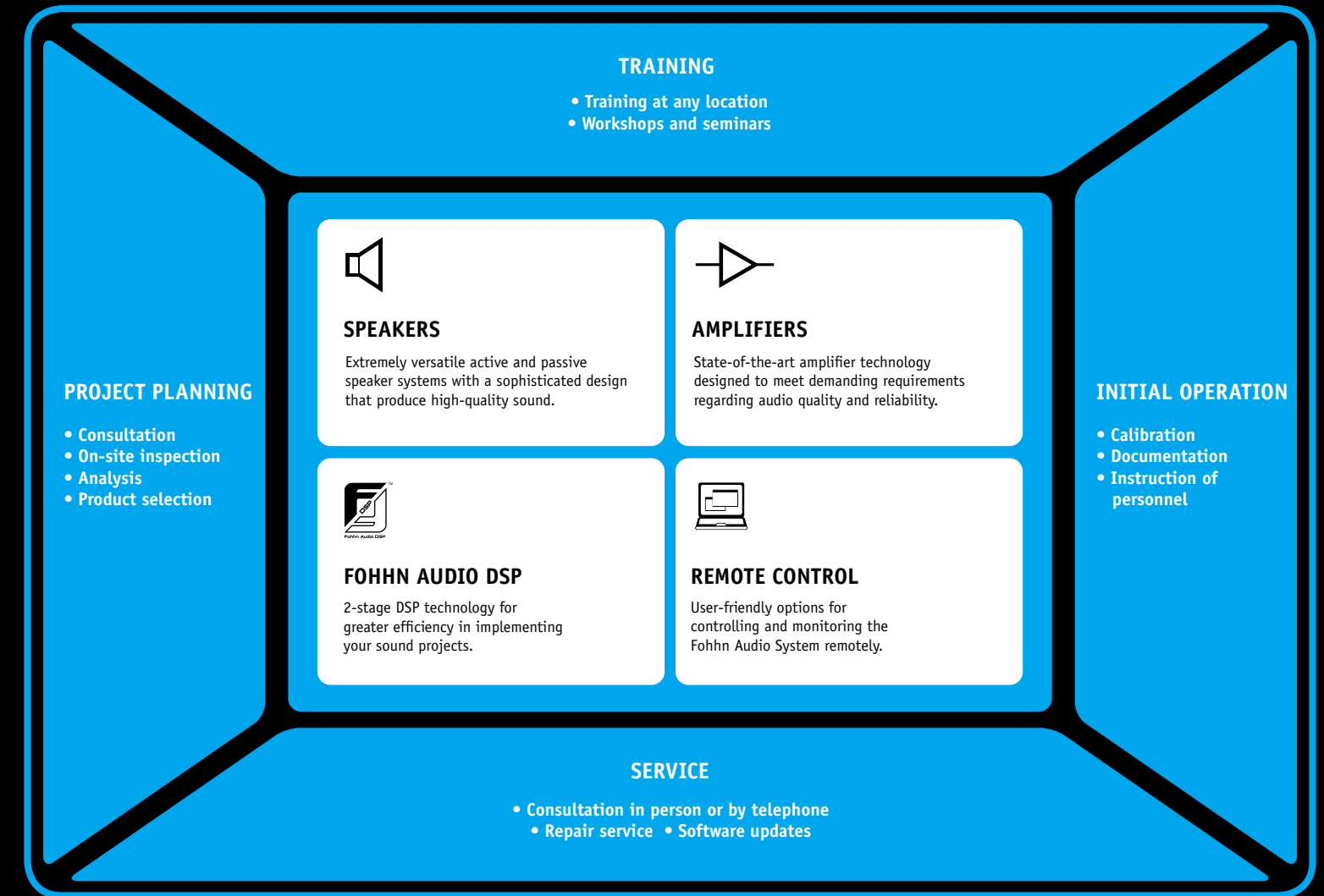
Uli Haug, Qualified Media Representative
Board of Directors Fohhn Audio AG

THE SYSTEM CONCEPT.

A PERFECT COMBINATION OF INNOVATIVE TECHNOLOGY AND PERSONAL CONSULTATION.

Requirements for modern sound installations with regard to sound quality, reliability, design, operating comfort and capacity for integration in the room architecture are very demanding. Only a sophisticated holistic audio system can fulfil all of these requirements – a system that can be used for many different applications even though all components are adapted to operate in perfect harmony with one another.

We always think one step ahead and over the years, have continually developed our range of speakers, amplifiers and DSP and control technology while expanding our capacity to provide expert consultation and planning advice. Our planning engineers work in close proximity with you to develop the perfect sound concept and provide expertise in system simulation and calibration.



CONTENTS

THE RIGHT SOUND

FOR EVERY OCCASION.



Linea series

Fohhn line array speakers – solving the problem of difficult acoustics.

Linea AL – Designer line array speakers in elegant wooden housing

Linea LX – Elegant, dynamic line array speakers in aluminium housing

Linea focus – Active, electronically steerable line array speakers

page 10

6 | Fohhn



Arc series

Refined range of speakers for professional fixed installations.

Arc Tops | Arc Subs – 12 fullrange speakers, 4 subwoofer systems

Arc tops active – With integral 2x1000W amplifier and DSPs

Arc ceiling speakers – Extremely high sound quality, even sound dispersion characteristics

page 40



Amp controller series

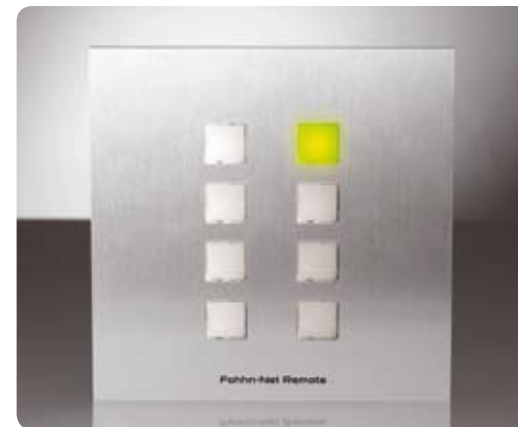
Perfectly adapted amplifier and DSP technology for all Fohhn speaker systems.

D series | A series – DSP-controlled amplifiers with adapted speaker presets

MX-16 Digital Matrix – Extremely powerful 16 x 16 digital matrix with intuitive software

FC-9 DSP controller – 4 inputs/6 outputs, speaker presets and make contacts

page 74



Net Remote series

The intuitive remote control concept by Fohhn.

Fohhn Audio Soft – Intuitive software for controlling devices with integral Fohhn DSP technology

FR-10 wall panel – Remote control module for wall installation, 8 programmable buttons

FR-20 remote control module – With 8 make contacts, integration in media controls

page 84



Perform series

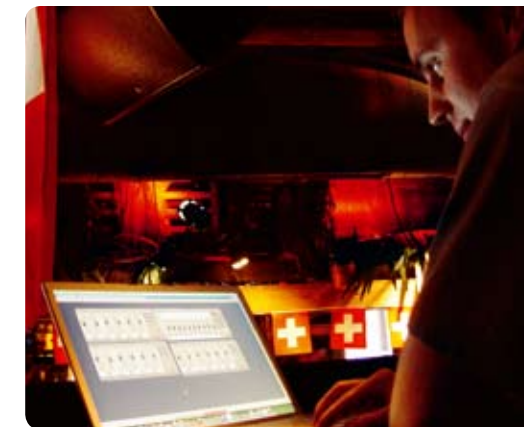
Classic line array systems designed to perfection.

WaveLine Compact PT-8 – Compact 2 x 6.5"/1.5" line array system

WaveLine PT-9 – Powerful 2 x 10"/2" line array system

Subwoofer PS-9 – Active sub, 21", integral 8.5kW DSP amplifier, sensor-controlled

page 90



Planning and service

Every project is different. Our planning engineers would be glad to provide you with their expertise in technical consultation, simulation and system calibration for your individual projects.

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THE FOHHN SYSTEM, THE COMPLETE AUDIO SOLUTION.

AMP controller



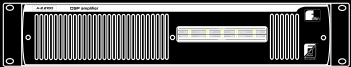
D-2.750



D-4.750



D-2.1500



A-2.2100



FC-9 DSP controller



MX-16 Digital Matrix

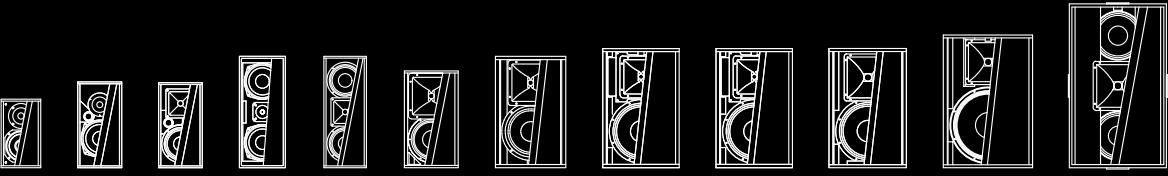


FR-10 Fohhn Net Remote



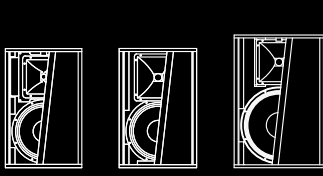
FR-20 Fohhn Net Remote

Arc Tops *passive*



AT-05 AT-06 AT-07 AT-08 AT-09 AT-10 AT-20 AT-30 AT-35 AT-40 AT-50 AT-66

Arc Tops *active*

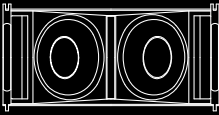


AT-35 *active* AT-40 *active* AT-50 *active*

Perform WaveLine Line-Arrays



PT-8



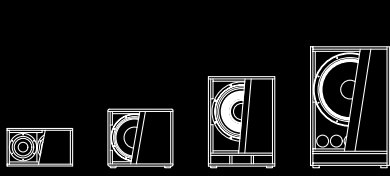
PT-9

Linea AL

Linea LX

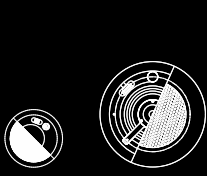
Linea *focus*

Arc Subs *passive*

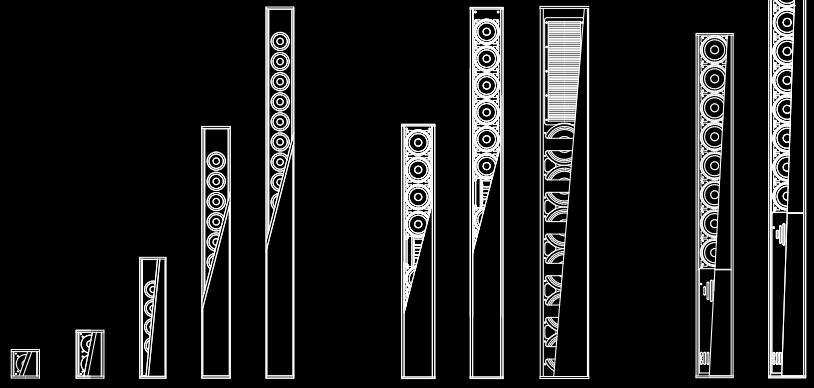


AS-10 AS-20 AS-30 AS-40

Ceiling speakers



CS-04 CS-08



AL-10 AL-20 AL-50 AL-100 AL-150 LX-100 LX-150 LX-600 LF-120 LF-220

HIGHEST DEMANDS FOR **DESIGN** AND **SOUND QUALITY**.

LINEA AL | LINEA LX | LINEA_FOCUS

LINEA SERIES

DESIGNER LINE ARRAY SPEAKERS / MINI LINE ARRAY SYSTEMS.



LINEA AL

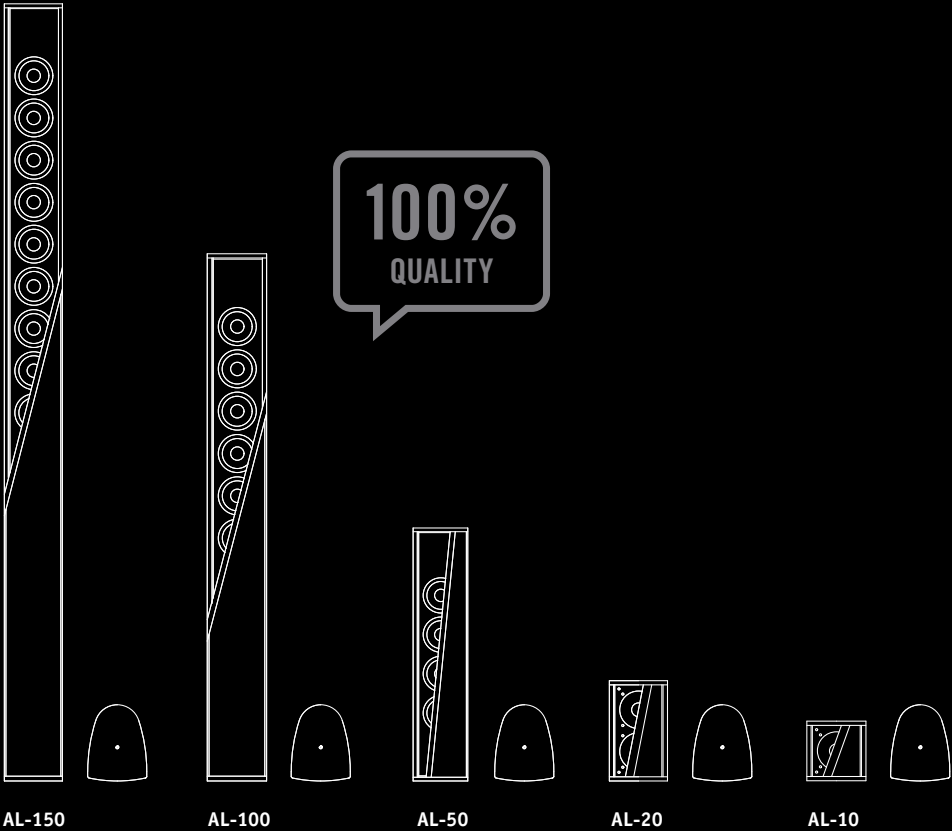
DESIGN LINE ARRAY SPEAKERS DEVELOPED FOR DIFFICULT ACOUSTICS AND DEMANDING REQUIREMENTS FOR HIGH-QUALITY SOUND AND AN ATTRACTIVE DESIGN.

- * Elegant wooden housing with piano finish or RAL colours
- * Maximum speech intelligibility in rooms with difficult acoustics
- * State-of-the-art line array technology
- * High degree of resistance to feedback
- * Sophisticated 2-way speaker technology
- * Natural sound quality for speech and music

Linea AL speakers are enclosed in a slim designer wooden housing with piano finish or any RAL colour that meets the toughest demands regarding capacity for integration in the room architecture. State-of-the-art 2-way speaker technology guarantees excellent reproduction of speech and background music even at venues with problematic acoustics. Simulation data available for EASE and Ulysses. Ideal for churches, conference halls, auditoriums, lecture halls, museums and all venues with long reverberation times.



LINEA AL



AL-150
Line array speaker, 300W, 16 x 3.3"
140° x 15° (hvx)

AL-100
Line array speaker, 200W, 10 x 3.3"
140° x 15° (hvx)

AL-50
Line array speaker, 80W, 4 x 3.3"
140° x 40° (hvx)

AL-20
Near-field speaker, 40W, 2 x 3.3"
140° x 80° (hvx)

AL-10
Near-field speaker, 20W, 1 x 3.3"
140° x 140° (hvx)

STATE-OF-THE-ART LINE SOURCE TECHNOLOGY FROM FOHNN.

Vertical dispersion of Linea AL gives greater directional advantages over the conventional speaker that do not utilize line array technology. Speech and music is aimed directly at the audience which improves speech intelligibility considerably. Unlike commercially available sound columns, the sound dispersion characteristics of Linea AL systems are extremely even so that all sounds

throughout the dispersion range remain homogenous. Multi-way speaker technology with separate tweeters developed by Fohhn engineers and combined with a sophisticated, integral filter network form the basis of these even sound dispersion characteristics.



LINEA AL

REFERENCES

”The degree of speech intelligibility is perfect for the venue... the speakers fit so well into the existing T-profiles that you barely notice they are there. The system is perfect for music reproduction as well.“

Kai Kornow, curator, Pomeranian State Museum.

Extract from the trade magazine „Professional System“, edition 5/2008.

Author of the article: Jörg Küster



Pomeranian State Museum
Greifswald

Task requirements

- High degree of speech intelligibility in spite of difficult acoustics due to reverberant surfaces, room 60m in length and 10m in height
- Simple operation, speaker system adapted to different applications at the press of a button
- Discreet integration in the room architecture

Sound system

Linea AL-150, with special painted finish

DSP amplifiers

D-4.750

Remote control

FR-10 wall installation module



LINEA AL

REFERENCES



De Westerkerk Amsterdam

Task requirements

- High degree of speech intelligibility in spite of extremely long reverberation times
- Natural sound quality, also for music
- Discreet integration in the historical architecture

Sound system

Linea AL-150, with special painted finish and Linea AL-100, with special painted finish

Amplifiers

Bittner 8X400

DSP controller

FC-9

Accessories

Freestand designer stands, with special painted finish



LINEA AL

REFERENCES

Cathedral Weiden

Task requirements

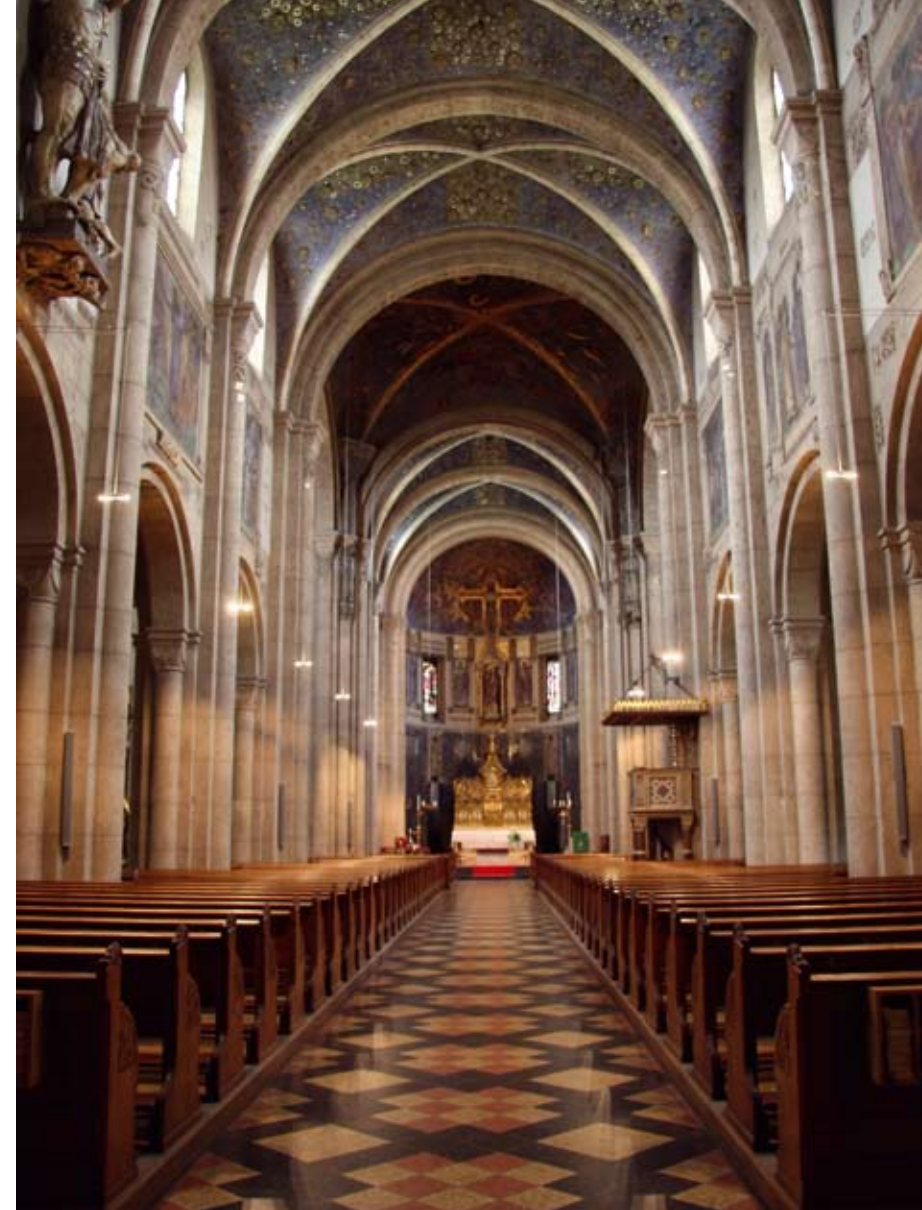
- High degree of speech intelligibility in spite of extremely long reverberation times
- Natural sound quality
- Discreet integration in the historical architecture

Sound system

Nave: Linea AL-150, with special painted finish
Aisle: Linea AL-20, with special painted finish

DSP amplifiers

D-4.750



LINEA AL

REFERENCES

” Pure quality made in Germany combined with powerful performance and a breathtaking design – our customers are impressed – the new benchmark for speakers in this class.“

Thomas Jaggo
Jaggo Media GmbH, Regensburg.

Church of the Holy Trinity
Munich



St. Vitus church
Pullenried



St. Lambert baroque church
Teunz

Sound system
Nave: Linea AL-150, with special painted finish
Aisle: Linea AL-50, with special painted finish

DSP amplifiers
D-4.750



LINEA AL

REFERENCES



Tel Aviv opera

Israel

Sound systems
Linea AL-150, Linea AL-100

Amplifiers
Bittner 8X400

DSP controller
Fohhn FC-8

Opera house with variable room acoustics system. The room acoustics/reverberation characteristics can be adapted electronically according to customer requirements.

Theatro Sociale di Valenza Po

Sound systems
Linea AL-10, AL-20, AL-50

Historical theatre, demanding requirements for visual integration of sound technology.



Town hall

Berlin

Sound system
Linea AL-10, AL-20, with special painted finish

DSP amplifiers
D-4.750

Remote control
FR-10 wall installation module



FREESTAND

DESIGNER STANDS FOR LINEA AL | LINEA LX

Fohhn Freestand designer stands provide genuine solutions for projects where the installation of speakers in the wall is not possible due to architectural reasons. Visit www.fohhn.com to view all three Freestand models.



Perfect for museums, exhibition rooms and churches

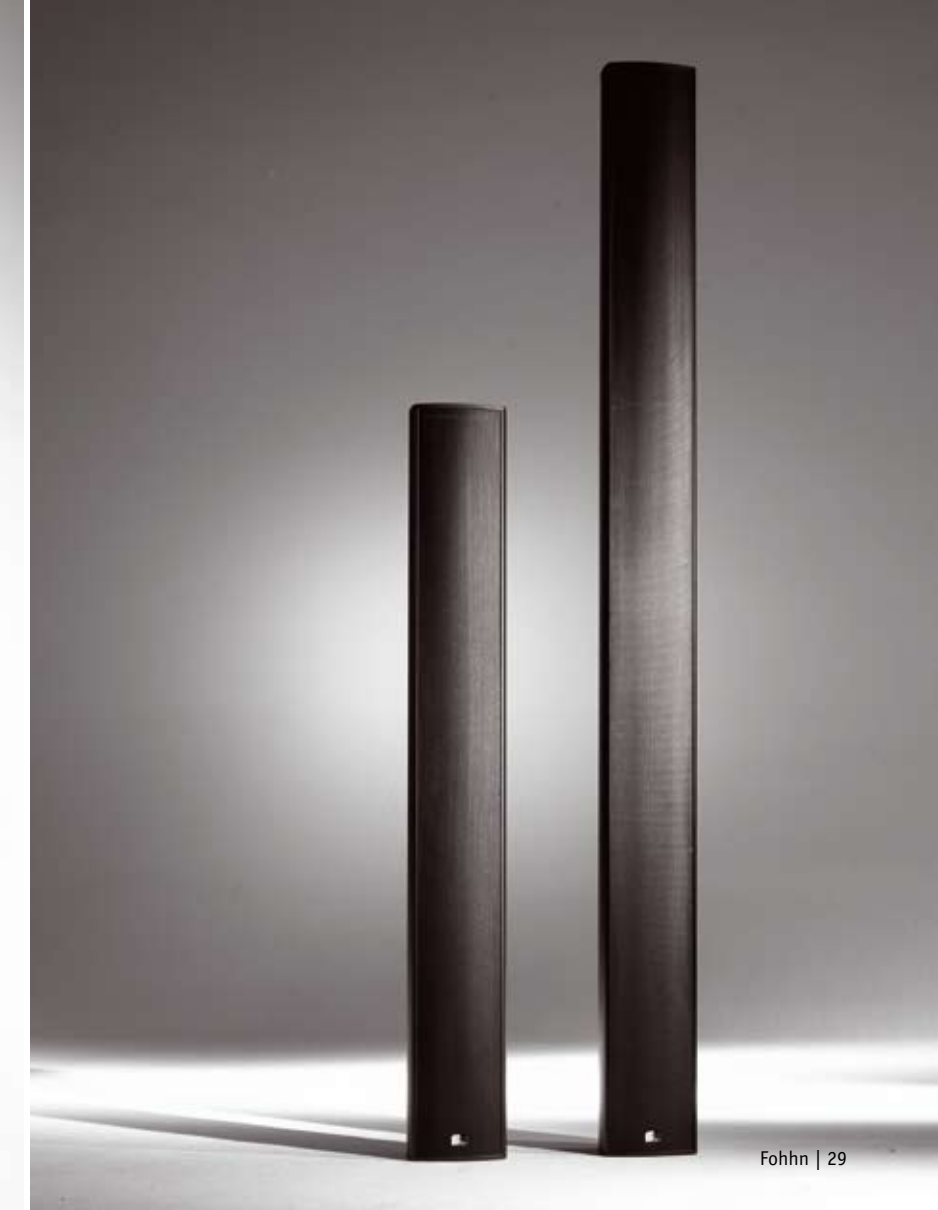
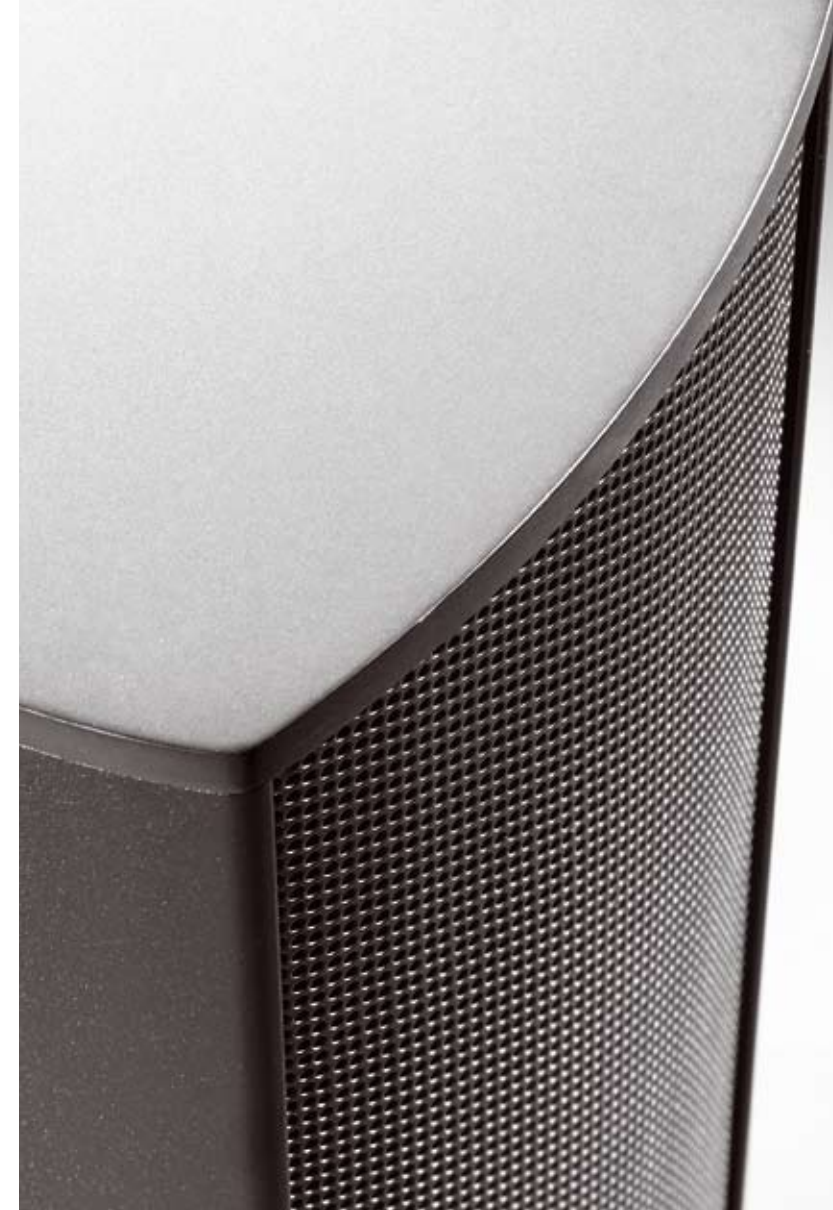


LINEA LX

LINE ARRAY SPEAKERS IN ALUMINIUM DESIGNER HOUSING PRODUCE EXCELLENT SOUND QUALITY FOR SPEECH AND LIVE MUSIC APPLICATIONS.

- * High dynamic speech and live music reproduction
- * Weatherproof designer aluminium housing (LX-100 / LX-150)
- * Line array function extends projection range and produces an even sound
- * Outstanding speech intelligibility, excellent sound quality
- * High degree of resistance to feedback
- * Sophisticated 2-way speaker technology with integral filter network

The elegant Linea LX line array speakers are enclosed in a weatherproof aluminium housing. Coated 4" high-performance speakers with 1" compression driver and wave guide guarantee an extremely high-quality sound. Perfect for top-quality reproduction of speech, live instruments and electronic music in churches, conference halls, lecture halls, auditoriums etc. Also ideal for outdoor sound applications.



LINEA LX

LX-100

Line array speaker, 400 W
8 x 4" / 1" driver with wave guide
8 ohms, 140° x 25° (hvx)
Weatherproof aluminium housing in all RAL colours

LX-150

Line array speaker, 600 W
12 x 4" / 1" driver with wave guide
8 ohms, 140° x 25° (hvx)
Weatherproof aluminium housing in all RAL colours

LX-600

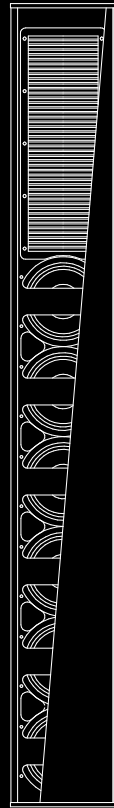
Line array speaker, 1000 W
6 x 6.5" / 3 x 1" driver with wave guide
6 ohms, 110° x 25° (hvx)
PU-coated wooden housing in all RAL colours



LX-100



LX-150



LX-600

100%
SOUND

SMALL DETAILS MAKE THE DIFFERENCE.

1. Powerful long excursion speakers guarantee maximum dynamics and resonant reproduction of speech and instruments. When arranged close together in a perfect row, neodymium speakers generate a cylindrical wave in the mid range.

2. Neodymium compression driver with wave guide guarantees steady, crystal-clear high-frequency reproduction. The cylindrical wave continues into the upper frequency range right up to the highest frequencies.

1. Powerful long excursion speaker

2. Compression driver with wave guide system

3. Sophisticated crossover

3. Sophisticated crossover ensures a perfect connection between the 4" speakers and the compression driver and guarantees balanced, musical sound characteristics.

4. High-quality aluminium housing. Reinforced design, extremely robust, low-resonance. Weatherproof. All RAL colours.

4. High-quality aluminium housing

TECHNOLOGY
BY FOHNN®

LINEA LX

REFERENCES

” Speech intelligibility was consistently good at various positions. From a technical viewpoint, the sound during the performance was outstanding: the musical pieces demonstrated the diversity of the system most impressively, especially the subwoofers positioned under the stage, which accentuated the different drum bassfrequencies perfectly.“

*Jörg Küster, author for the trade magazine
„Professional System“, edition 5/2007.*

Pirate theatre
Grevesmühlen

Sound system
Tribune: Linea LX-100 and XS-4 passive
Playing field: Linea AL-50 (PU coating)

DSP amplifiers
D-2.1500 and Bitter 8X400

DSP controller
FC-9

Open-air theatre by the sea
(tribune for 1500 spectators)



Le Théâtre de l'Odéon en travaux
Paris

Task requirements

- Perfect sound quality for speech and music
- Discreet integration in the room architecture

Sound system
Linea LX-150, with special painted finish

DSP amplifiers
D-2.1500

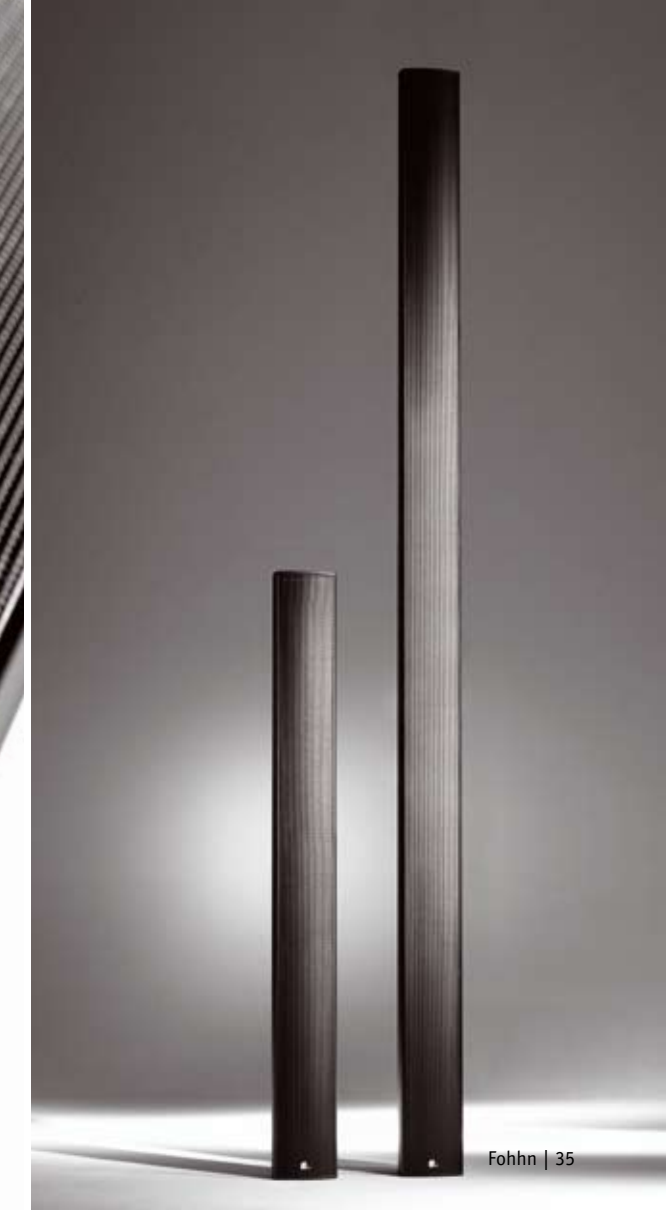


LINEA FOCUS

ELECTRONICALLY STEERABLE LINE ARRAY SPEAKERS ALLOW PERFECT ADAPTATION TO THE ROOM ARCHITECTURE AND ACOUSTICS.

- * Electronically steerable, using integral amplifier and DSP technology
- * Individual control of beam and beam angle in realtime
- * Two beam technology (2 dispersion beams possible)
- * Intuitive control software
- * Option of cascading several systems
- * Excellent sound and extremely dynamic speech and music
- * Aluminium designer housing in all RAL colours

Linea_focus: active, electronically steerable line array speaker. The cream of sound technology. The vertical sound dispersion characteristics of the speaker can be directed towards a specific section of the audience using state-of-the-art digital technology and software from Fohhn without having to alter the speaker position mechanically. Ideal for large churches, cathedrals, railway stations, conference halls, airports, trade fair centres, etc.



LINEA FOCUS

100%
KNOW-HOW

LF-120
Active, electronically steerable line array speaker,
8 x 4" neodymium speaker,
digital 8-channel DSP amplifier integrated,
8 separate DSP channels,
vertical sound dispersion, digitally controlled (beam
angle: 5° to 40°),
vertical sound inclination angle, digitally controlled
(-40° to +40°),
horizontal sound dispersion: 150°,
weatherproof aluminium housing in all RAL colours,
length: 120cm

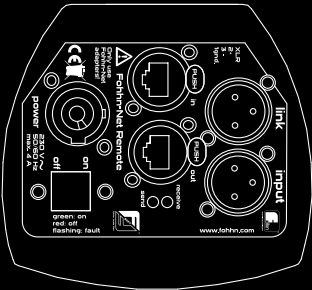
LF-220
Active, electronically steerable line array speaker,
16 x 4" neodymium speaker,
digital 16-channel DSP amplifier integrated,
16 separate DSP channels,
vertical sound dispersion, digitally controlled (beam
angle: 5° to 40°),
vertical sound inclination angle, digitally controlled
(-40° to +40°),
horizontal sound dispersion: 150°,
weatherproof aluminium housing in all RAL colours,
length: 220cm



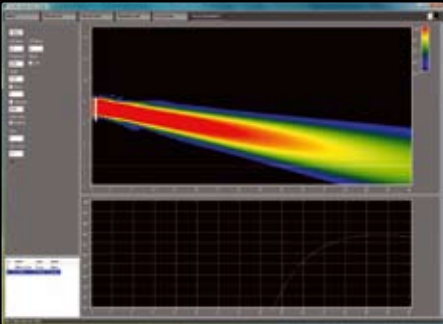
LF-120



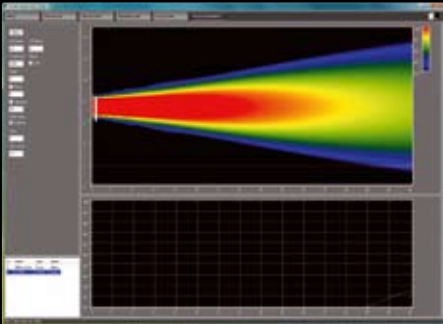
LF-220



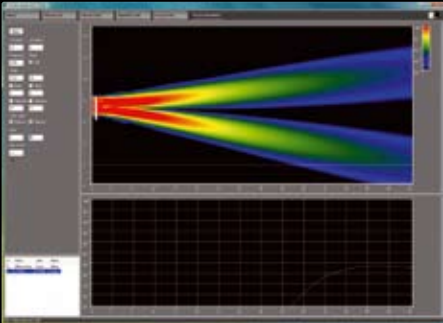
Connection plate LF-120 and LF-220



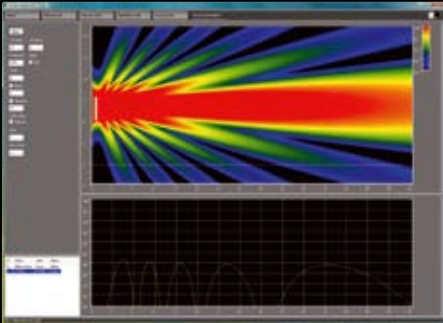
1 Beam



Beam without side lobes



2 Beams



Beam with side lobes



TWO BEAM TECHNOLOGY

The Linea focus system with “two beam technology” developed by Fohhn can generate 2 dispersion beams in the vertical dispersion range. A speaker system can direct sound at a specific area of the dance floor or gallery as a result.

SIDE LOBE FREE TECHNOLOGY

This specially developed algorithm can suppress unwanted side lobes.

DSP AND SOFTWARE TECHNOLOGY

Multichannel Fohhn amplifier and DSP technology combined with control software developed by Fohhn gives you complete control of the beam angle, sound characteristics and dynamics.

TECHNOLOGY
BY FOHNN®

LINEA FOCUS

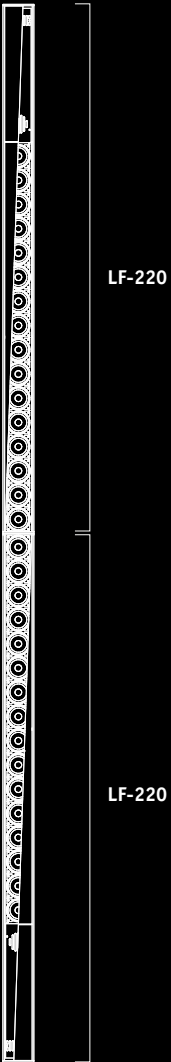
PERFECT INTEGRATION

Thanks to the electronic control function, the speaker system can be mounted flat on the wall or installed directly in the wall, allowing perfect integration into the room architecture.

CASCADE FUNCTION

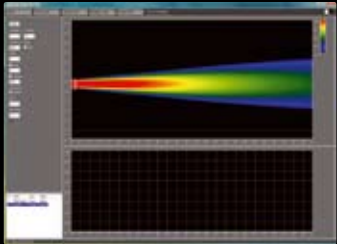
Two Linea_focus systems can be cascaded. The resulting extension of the speaker row increases the projection range and sound pressure level significantly as well as extending the frequency range of sound directed at the audience. Doubling the line length quadruples the projection range.
Illustrated: 2x LF-220, total line length: 440 cm.

100%
KNOW-HOW

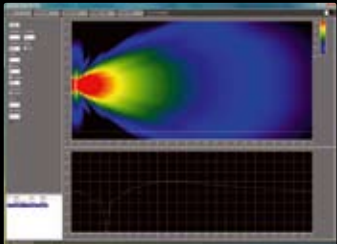


INTUITIVE BEAM CONTROL BEAMS IN REALTIME.
OPERATED VIA MOUSE WHEEL.

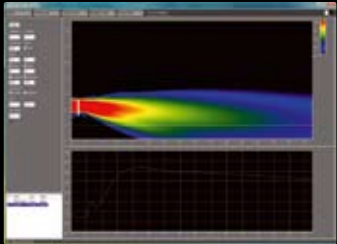
TECHNOLOGY
BY FOHNN®



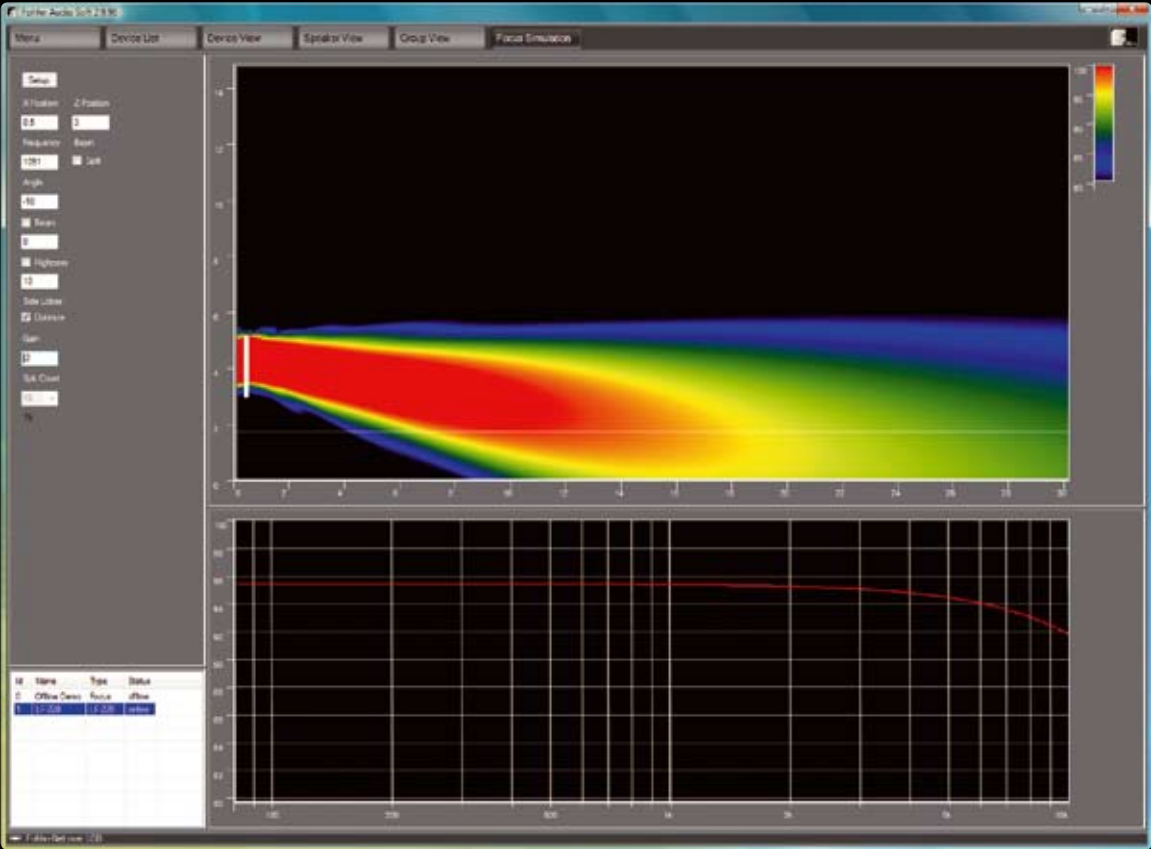
Vertical beam angle: 0°



Vertical beam angle: 60°



Asymmetric beam



Vertical inclination angle: 15°



THOUGHTFULLY **DESIGNED,** PERFECTLY **REFINED.**

ARC TOPS | ARC SUBS | ARC TOPS ACTIVE | ARC CEILING SPEAKERS

ARC SERIES

ARCHITECTURAL SOUND DESIGN.

ARC TOPS PASSIVE | ARC SUBS

FROM THE SMALLEST CONFERENCE ROOM TO THE LARGEST STADIUM – THE RIGHT
SPEAKER SYSTEM FOR EVERY PROJECT.

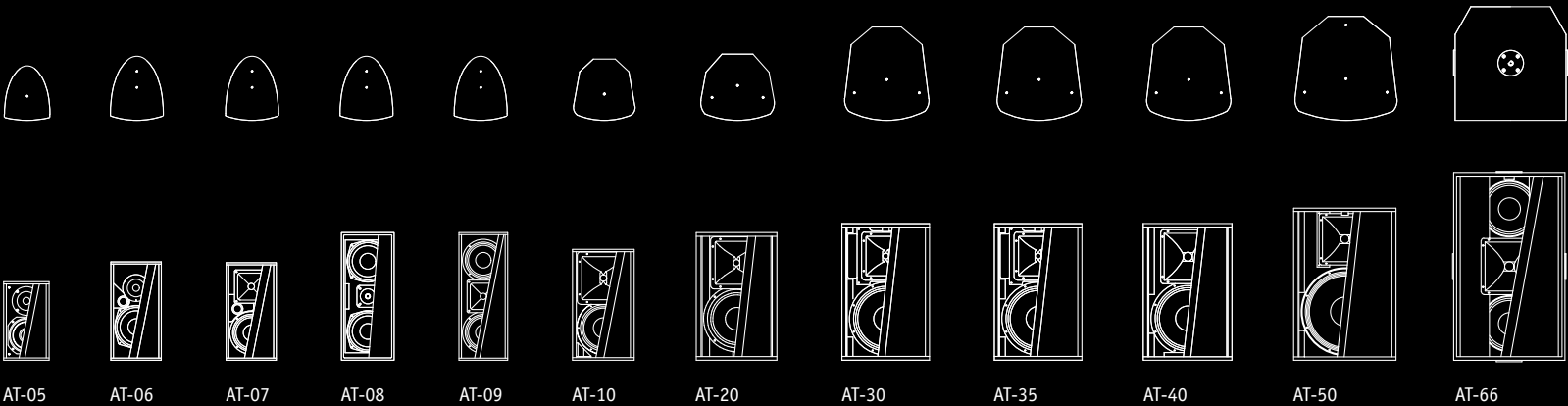
- * 12 excellent fullrange speakers from every performance category
- * 4 compact subwoofers that produce a powerful bass sound
- * Outstanding integration in room architecture
- * Perfect sound quality and speech intelligibility
- * High-quality wooden housing, all RAL colours
- * Specially developed high-frequency horns for defined sound dispersion
- * Range of versatile wall brackets

Our refined, thoughtfully designed speaker and accessories system guarantees professional results in fixed installation projects at locations such as stadiums, airports, opera houses, theatres, churches, conference rooms, halls, theme parks, clubs, restaurants, bars, etc.



ARC TOPS PASSIVE | ARC SUBS

AT-05 Compact speaker 80 W 5"/HT	AT-08 Fullrange speaker 150 W 2 x 6.5"/1" CD	AT-20 Fullrange speaker 300 W 10"/1" CD	AT-40 Fullrange speaker 500 W 12"/1.4" CD
AT-06 Fullrange speaker 100 W 6"/HT	AT-09 Fullrange speaker 200 W 2 x 6.5"/1" CD	AT-30 Fullrange speaker 350 W 12"/1" CD	AT-50 Fullrange speaker 600 W 15"/1.4" CD
AT-07 Fullrange speaker 150 W 6.5"/1" CD	AT-10 Fullrange speaker 200 W 8"/1" CD	AT-35 Fullrange speaker 500 W 12"/1" CD	AT-66 Fullrange speaker 700 W 2 x 10"/1.4" CD

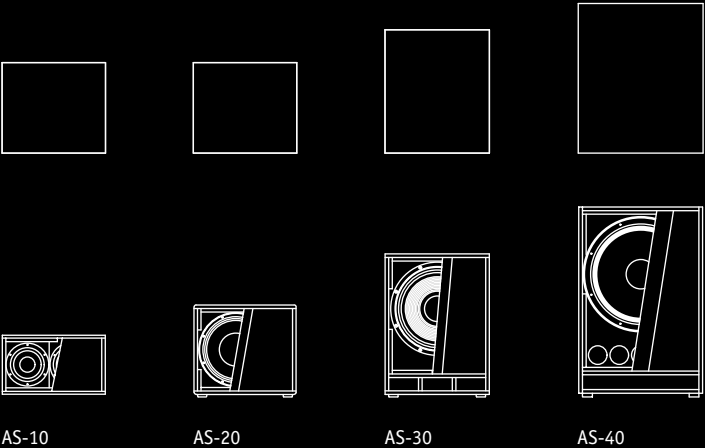


AS-10 Ultra-compact bass system, 300 W 2 x 6", bass reflex	AS-20 Compact bass system 400 W 1 x 12", bass reflex	AS-30 Compact high-performance bass system 700 W 1 x 15", bass reflex	AS-40 Powerful bass speaker system 800 W 1 x 18", back-loaded resonator system
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PERFECTION TO DETAIL.

One guiding principle for the development of our speaker systems is “Perfection to detail”. We are only satisfied when all components are correctly in place and each individual screw is sitting snugly. A combination of state-of-the-art CNC production, perfect handwork and our passionate affiliation to the product are simply irreplaceable.



ARC TOPS PASSIVE | ARC SUBS

REFERENCES

Whether the **Letzigrund stadium** in Zurich, **Villingen-Schwenningen ice rink** or **Fritz Walter stadium** in Kaiserslautern – Fohhn audio systems create a perfect atmosphere and guarantee excellent sound transmission at sporting events.



Letzigrund stadium Zurich



Villingen-Schwenningen ice rink



Electronic racks at Fritz Walter stadium in Kaiserslautern



Fritz Walter stadium in Kaiserslautern

ARC TOPS PASSIVE | ARC SUBS

REFERENCES

Come rain or snow –
Fohhn speaker systems function perfectly even under the harshest of weather conditions.



Ski jump arena
Oberstdorf

Task requirements

- Excellent speech intelligibility
- Prevent sound from reaching residential areas
- High degree of operating reliability despite difficult weather conditions

Sound system
AT-07 in weatherproof PU finish

Accessories

- Hot-dip galvanised brackets
- Acoustically transmissive rain covers



ARC TOPS PASSIVE | ARC SUBS

REFERENCES

Army academy
Dresden



Press centre for the prime minister of Saxony
Dresden



Protezione Civile
Rome

Sound system
AT-07, AT-09

Civil defence crisis centre,
conference rooms



ARC TOPS PASSIVE | ARC SUBS

REFERENCES



Clubs: Suite 212 and Waranga Lounge
Stuttgart



Bix Jazz Club
Stuttgart

Sound system
AT-07, AT-09, AT-20, AT-35,
AS-30, XT-33

DSP amplifiers
A-2.2100 and D-2.750

Remote control
Fohhn Audio Soft

Famous artists such as Curtis
Stigers, Mezzoforte, Tower
of Power, Blood Sweat and
Tears and many other performers
held impressive concerts in Bix.

T0-12
Stuttgart

Sound system
AT-40, AT-07, AS-40

DSP amplifiers
D-2.1500
D-4.750

A club that has won the
red dot design award.



ARC TOPS PASSIVE | ARC SUBS

REFERENCES



**Schönblick,
Württemberg Christian centre**
Schwäbisch Gmünd

Sound system
AT-07, AT-20, AT-66, AS-40

DSP controller
FC-9

The modern Christian centre offers space for conventions, conferences, freetime activities. Gospel concerts involving famous artists are held regularly.



ARC TOPS PASSIVE | ARC SUBS

REFERENCES



Munich airport, terminal 2

Task requirements

- Extremely high degree of speech intelligibility in spite of demanding acoustics
- Even sound distribution
- Maximum operating reliability

Sound system

AT-09, with special painted finish



ARC TOPS ACTIVE

INTEGRAL DIGITAL TECHNOLOGY MADE BY FOHHN FOR MAXIMUM SOUND PERFORMANCE AND POWER.

- * Integral digital stereo amplifier, 2x1000W / 8 ohms
- * State-of-the-art Fohhn audio DSP technology
- * Excellent sound performance and power
- * Remote monitoring/operation, network-compatible
- * Save costs on expensive speaker cables
- * No external amplifier cabinets
- * High-quality wooden housing, all RAL colours

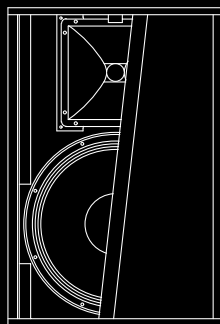
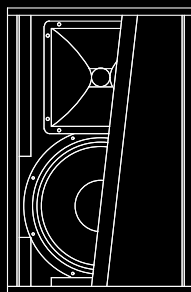
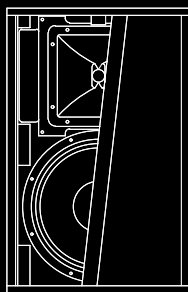
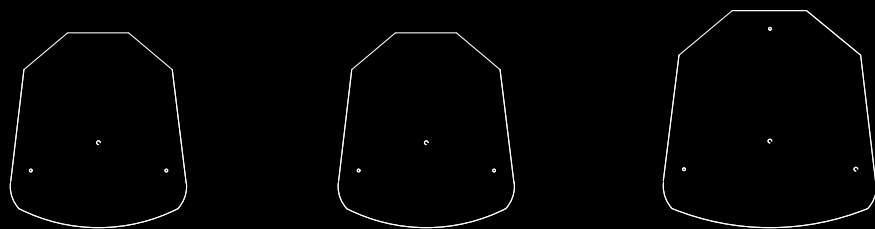
Our active ARC Tops are equipped with state-of-the-art digital amplifier and DSP technology developed by Fohhn. Active digital technology guarantees maximum sound performance and power, compact dimensions and low weight. Class D amplifiers generate minimal heat and are extremely reliable. Arc Tops active can be monitored/controlled remotely and are network-compatible.



AT-40 *active*,
LED-Frontlight can be switched off

ARC TOPS ACTIVE

TECHNOLOGY
BY FOHNN®



AT-35 active

AT-40 active

AT-50 active

AT-35 active

Active speaker system
12"/1" CD neodymium.
2x 1000 W / 8 ohms
CLASS D, DSP, network-compatible,
remote operation

AT-40 active

Active speaker system
12"/1.4" CD neodymium.
2x 1000 W / 8 ohms
CLASS D, DSP, network-compatible,
remote operation

AT-50 active

Active speaker system
15"/1.4" CD neodymium.
2x 1000 W / 8 ohms
CLASS D, DSP, network-compatible,
remote operation

EVERYTHING UNDER CONTROL!

Central remote control. Arc-Tops active can be operated and monitored from a central location and controlled synchronously in a network. All DSP functions such as 10-band parametric EQ, delay, compressor/limiter, noise gate, crossover, volume or phase can be modified on a laptop using Fohhn audio software in realtime and stored as a preset.

Direct control on the device. All integrated DSP functions can be controlled conveniently via the operating panel/display on the speaker system. The 4-line, blue operating display shows all the most important parameter at a glance. The contrast can be adjusted and the lighting switched off.



ARC TOPS ACTIVE

**INTEGRATED STATE-OF-THE-ART DIGITAL TECHNOLOGY:
ULTRA-COMPACT AND LIGHTWEIGHT.**

The integrated stereo amplifier module with 2 x 1000W of power at 8 ohms and integrated DSPs weighs only 2.5 kg. The electronic system is enclosed in a robust aluminium housing. All controls and connectors are recessed for maximum protection.

1. Blue 4-line operating display: Contrast is adjustable. Lighting can be switched off. Display easy to read, even in bright sunshine and at night.

2. Clear display layout: 4 arrow buttons and a rotary knob. Intuitive entry of parameters such as volume, presets, audio devices, etc.

3. Stylish wooden housing: Multiply birch wood, class A, waterproof. Aluminium brackets fitted to interior for reinforcement. High-quality textured paint, also available with optional weatherproof plastic coating. M8 threaded inserts on side for attaching retaining bracket for standing or flown applications.

4. Input sockets (Neutrik, Combo): Option of symmetric XLR sockets or 6.3 mm jack.

5. Link sockets (XLR): Parallel to the input sockets. Used to split the input signal to other audio devices.

6. Speakon output socket: 1000W/8 ohms amplifier power and full power of one DSP channel are available here. All Fohhn Tops or subwoofers can be selected, irrespective of the power rating. A finely tuned preset for each connected speaker is stored in the speaker database. When a subwoofer is connected, the frequency crosses over smoothly at the highpass/lowpass filter.

7. Power on/off switch: Pressing the on/off switch activates the amplifiers, the mains adapter and the DSPs in soft start mode whereby the speakers are connected after a delay.

8. Air ducts with filter foam and protective grille: For cooling the amplifiers. Very quiet, temperature and speed-controlled fans with quick-change air filters.

9. Network sockets: For operating the speaker system remotely using a laptop / handheld device / wall installation module or 19" remote control devices. Several devices can be interlinked via network cables and controlled remotely and synchronously from a single location.

10. Powercon network sockets: For locking Powercon network connectors. Prevents the system from accidental disconnection.

11. Ground/Lift switch: The Ground/Lift switch provides a useful solution for humming caused by other grounded devices.



2x
1000 W / 8 Ohms

ARC TOPS ACTIVE

REFERENCES

College of Music Dresden, Germany
Carl Maria von Weber

“A brilliant ear is one of the basic requirements to study at a college of music. The requirements of speaker systems for the concert hall are therefore extremely high...”

“... the speakers need to be able to cope with a critical ear in all genres of music – classic, jazz, rock, pop ...”

“... to find out which speaker brand is able to fulfil these requirements, we held a sound-testing session with sound engineers, recording engineers, musicians, conductors and bystanders ... Four international speaker manufacturers participated with their 12” top versions ...”

College of Music Dresden
Carl Maria von Weber
Dresden, Germany

Task requirements

- Exceptional sound quality for all types of music, from classic to rock
- Surround sound applications
- Easy operation
- Option of remote operation and monitoring

Sound system

AT-40 active, AT-40, AS-40, AT-09

DSP amplifiers

D-4.750

Remote control

Fohhn Fusion Soft

“... the winner was clear, amazingly in all test groups, said Dirk Homann (technical director of concert hall). **The Fohhn speaker was clearly the best system ...”**

*Extract from trade magazine “Professional System”, 3/2009.
Author of the article: Qualified Engineer. Christiane Bangert.*



ARC CEILING SPEAKERS

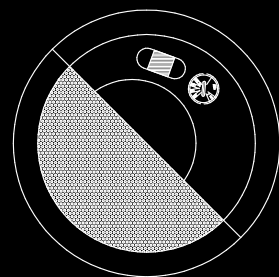
THE NEW FOHHN CEILING SPEAKERS DEMONSTRATE IMPRESSIVELY THAT EVEN ASSEMBLED SPEAKERS CAN GENERATE AN AMAZING SOUND.

- * **Complex coaxial speaker technology**
- * **Extremely even, controlled sound dispersion**
- * **Excellent speech intelligibility**
- * **Dynamic music reproduction**
- * **Compatible with Fohhn subwoofer systems**
- * **100V or low-impedance technology**

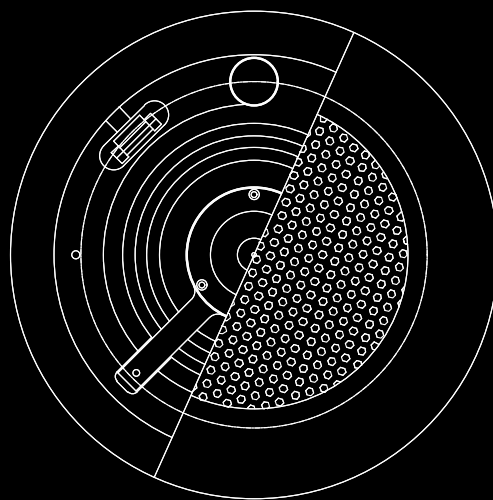
Fohhn ceiling speakers provide genuine solutions for fixed installations where standard speakers cannot be used for visual reasons and demanding requirements regarding sound quality, speech intelligibility and dispersion exist. Ideal for pubs, shops, hotels, conference rooms, airports etc.



ARC CEILING SPEAKERS



CS-04



CS-08

CS-04

Compact ceiling speaker with excellent sound quality, 4" long excursion drivers / 1" domed driver, 30W, neodymium technology, 16 ohms or 100V operating mode, 100V transformer integrated, dispersion 90° conical, steel fire guard.

CS-08

Horn-loaded high output ceiling speaker with excellent sound quality, 8" long excursion drivers / 1" domed driver, 120W, neodymium technology, 8 ohms or 100V operating mode, optional transformer, dispersion 90° conical.

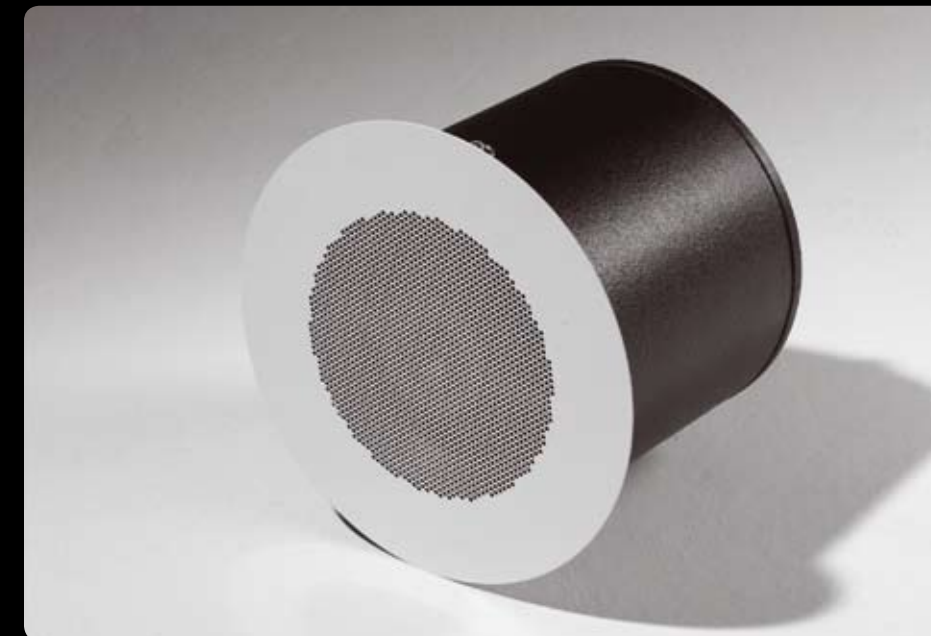
**EXCELLENT SOUND DISPERSION.
EXCELLENT SPEECH INTELLIGIBILITY.**

TECHNOLOGY
BY FOHNN®

The high-class 2-way-coaxial speaker systems are able to generate high sound pressure levels and exceptional speech intelligibility even in rooms with high ceilings. The sound quality is extremely clear and the sound dispersion very even.



CS-04



CS-08

ARC CEILING SPEAKERS

REFERENCES



Klaus K Designer Hotel
Helsinki

Fohhn Speaker systems create the perfect acoustic ambiance.



ARC CEILING SPEAKERS

REFERENCES

Ahjo Lounge, Klaus K Hotel
Helsinki



Kempinski Hotel
Belek, Turkey



WOW Hotels
Antalya, Turkey

Kremlin Palace Hotel
Topkapi Palace Hotel
Kiris Resort Hotel
Beach Club Hotel

Clubs, bars, conference
rooms, outside areas
equipped with Fohhn audio
systems.



PERFECTLY ADAPTED **AMPLIFIERS** AND **DSP TECHNOLOGY.**

D-SERIES | A-SERIES | BITTNER | FC-9 | MX-16

AMP CONTROLLER SERIES

DSP AMPLIFIERS + DSP CONTROLLERS.

DSP amplifier

FULLY DIGITAL SOUND DESIGN.

Fohhn Audio DSP

► Presets ◀
Channel Controls
Setup



1 2 3 4 5 6 channel
select

D-SERIES | A-SERIES

SOUND QUALITY. RELIABILITY. INTELLIGENT CONTROL.

- * State-of-the-art CLASS D and CLASS H amplifier technology
- * Integrated Fohhn DSPs guarantee maximum sound performance
- * 5 premium audio tools such as Parametric EQ are integrated
- * Integral speaker database for maximum operating reliability
- * Remote monitoring/operation, network-compatible
- * Minimal heat development, extremely quiet fans

Our DSP-controlled CLASS D and CLASS H amplifiers were developed, to fulfil the most demanding requirements concerning sound quality and reliability. Fohhn DSP amplifiers guarantee an excellent sound quality, maximum reliability and offer a host of possibilities for adapt your sound system to various room acoustics.



D-SERIES | A-SERIES

TECHNOLOGY
BY FOHNN®

DUAL DSP POWER FOR EXCELLENT SOUND QUALITY AND OPTIMAL RELIABILITY.

Integrated Fohhn DSP technology offers a host of possibilities for implementing your sound concepts. The equipment includes two separate stereo DSP engines and integrated speaker database for all Fohhn speaker types, which is what makes our amplifiers so unique.

The speaker database is based on an algorithm specially developed for each speaker, which protects bass, mid and high frequency drivers in all performance classes and guarantees outstanding sound and maximum operational reliability.



DSP-1: Integrated digital audio devices.

High-quality audio devices. Settings can be modified and saved as presets. Auxiliary status display and sound generator.

- 10-band parametric EQ
- Compressor / limiter / noise gate
- Delay
- Crossover
- Status display: temperature, operating time
- Sound generator: pink noise, swepttone

DSP-2: Speaker management system.

Fixed default programs. Updatable.

Speaker database for all Fohhn speakers. Specially developed algorithm for amazing sound and maximum operating reliability.



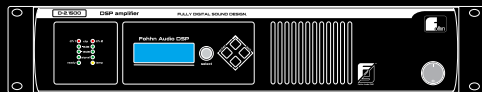
D-2.750 DSP amplifier

CLASS D, 2 channel operation, 2x 750 W /
4 ohms, 2x 390 W / 8 ohms
Fohhn Audio DSP, display, remote control



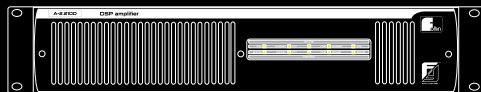
D-4.750 DSP amplifier

CLASS D, 4+2 channel operation, 4x 750 W /
4 ohms, 4x 390 W / 8 ohms
2x DSP line out channels for controlling a conventional amplifier
Fohhn Audio DSP, display, remote control



D-2.1500 DSP amplifier

CLASS D, 2 channel operation, 2x 1500 W /
4 ohms, 2x 900 W / 8 ohms
Fohhn Audio DSP, display, remote control



A-2.2100 DSP amplifier

CLASS H, 2 channel operation, 2x 2100 W /
2 ohms, 2x 1350 W / 4 ohms,
2x 900 W / 8 ohms, Fohhn Audio DSP, remote control

BITTNER AMPLIFIERS

In addition to our special Fohhn® DSP amplifiers, we also offer the complete range of amplifiers manufactured by Bittner Audio for low-impedance or 100 V applications. Bittner Audio offers solutions such as multichannel amplifiers with eight standard channels and important features for integration in electroacoustic emergency warning systems as specified in DIN EN 60849 (VDE 0828). Contact us for more information!



D-SERIES | A-SERIES

REFERENCES

Guangzhou Sport University
Guangzhou, China

Sound system
AT-05, AT-20, AT-40, AT-66, AS-40

DSP amplifiers
D-2.1500 / D-4.750 / Bittner 8X400

DSP controller
FC-9

Remote control
FR-20 for integration in media
control systems



**Tianjin Firefighters
Convention Centre**
Tianjin, China

Sound system
AT-07, AT-40, AT-66, AS-40

DSP amplifiers
D-2.1500 / Bittner 8X400

DSP controller
FC-9

**Shandong Confucius
Cultural Convention Centre
Theatre**
Shandong, China

Sound system
AT-05, AT-40, AT-50, AT-66,
AS-40, XT-33

DSP amplifiers
D-2.1500 / D-4.750 /
Bittner 8X400

DSP controller
FC-9



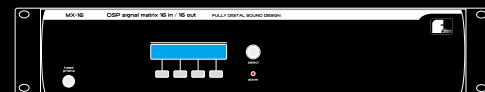
FC-9 | MX-16

PERFECT CONTROL FOR AUDIO AND ROUTING.



FC-9 – DSP system controller (4 in / 6 out)

Digital DSP system controller with 4 inputs and 6 outputs. 8 input contacts for the connection of external switches for preset changing. 19"/1HE designer housing. Automatic calibration function for all connected amplifiers (computer aided setup) guarantees maximum protection for both amplifiers and speakers. Remote operation and monitoring via laptop, handheld device, 8-button wall panel or 19" control devices available. Network-compatible. Integrated Fohhn Audio DSP for each amplifier channel with 2x10-band parametric EQ, delay, variable high/lowpass filter, dynamic processor with noise gate, 180° phase reversal and status display for monitoring the temperature and operating time. Integrated speaker management system with default presets for all Fohhn speakers.



MX-16 - DSP Audio Signal Matrix (16 in / 16 out)

DSP-based 16x16 audio signal matrix, 8 analogue mic/line inputs, + 8 analogue line inputs, automatic volume control, signal ducking, dynamic processing, crossover, delay, parametric 5-band EQs (input), parametric 7-band EQs (output), input level, output level, phase, mute function. Compatible to AMX or Crestron media control units, 19", 2 HE, 2 lines display, EASE compatible, headphone output. Remote control via FR-10 Fohhn Net Remote wall panel with 8 configurable switches. Sophisticated intuitive control software.





THE **INTUITIVE** OPERATING **CONCEPT.**

FOHNN AUDIO SOFT | FR-10 | FR-20

NET REMOTE SERIES

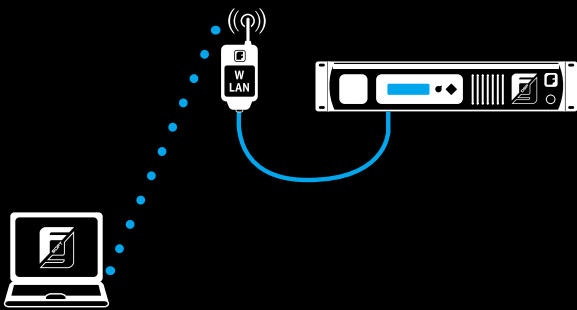
THE INTUITIVE OPERATING CONCEPT.



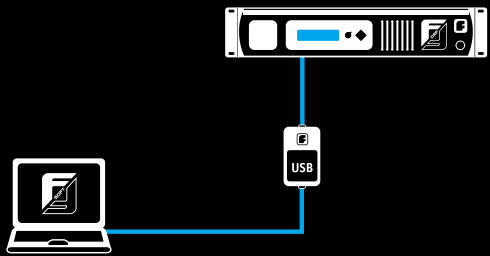
FOHNN AUDIO SOFT

MAXIMUM CONTROL WITH “FOHNN AUDIO SOFT” SOFTWARE.

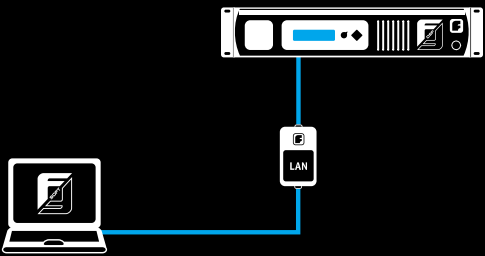
Easy, convenient handling. Laptop and Fohhn Audio Software for intuitive control and monitoring of all connected Fohhn audio devices with integrated DSP. Clear graphical user interface for rapid access to the speaker database, status display and all audio devices integrated in the Fohhn DSP. A sound generator with pink noise and sweeptone function is also integrated. Connection via WLAN adapter, Fohhn USB adapter or Ethernet adapter.



NA-2 Fohhn-Net
WLAN-Adapter
wireless



NA-1 Fohhn-Net
USB-Adapter



NA-3 Fohhn-Net
Ethernet-Adapter

SIGNAL PROCESSING IN REALTIME!



Routing module
Free channel assignment.



Preset module
Select sound presets and speaker presets.



Main module
Individual audio devices or presets are selected with one mouse click. Adjustment of volume level, channel on/off and stereo/mono mode.



Dynamic module
System compressor, limiter and noise gate with all necessary setting options.



Status module
Displays the temperature and operating time. Protection. Lock function. Signal function = display flashes indicating that the device is detected.

Parametric equalizer module with graph
10 band parametric EQ, frequency and Q factor selected as required.
Excellent graphic view of your work on the EQ.



Delay module
For delaying the speaker system.
Settings in milliseconds or metres.



Xover module
Programmable crossover.



Test signals
Sinus tone and pink noise generator.

TECHNOLOGY
BY FOHNN®

FR-10 | FR-20

INTUITIVE REMOTE CONTROL UNITS



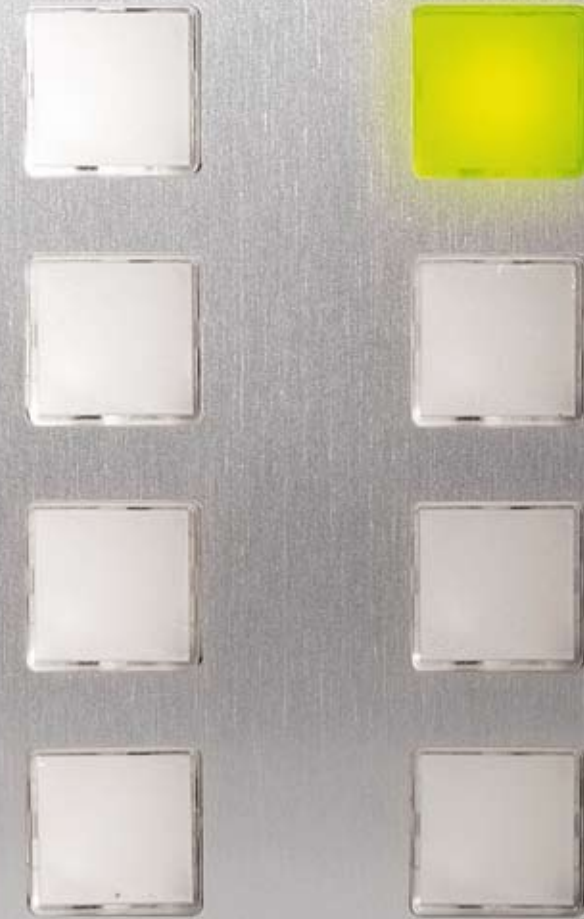
FR-10 Fohhn-Net Remote

8 programmable buttons can be configured to control the overall volume of a system, the volume in different zones or presets for different room effects, for example. The system also has a special function that confirms whether all commands have been executed successfully. The buttons indicate this by changing red or green shortly after they are pressed. The wall panel is easy to configure with the intuitive Fohhn-Net Remote Control Software.



FR-20 Fohhn-Net Remote

Operation via 8 make contacts or RS-485 protocol. Compatible with media control systems. All end devices with integrated Fohhn audio DSPs can be operated by AMX or Crestron media control units via the FR-20. Quick configuration with Fohhn-Net Remote Control Software.



STATE-OF-THE-ART **TECHNOLOGY** MADE IN GERMANY.

WAVELINE COMPACT PT-8 | WAVELINE PT-9 | SUBWOOFER PS-9

PERFORM SERIES

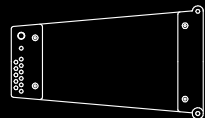
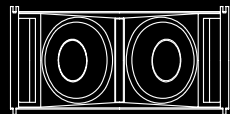
LINE ARRAY SYSTEMS.



WAVELINE LINE ARRAY SYSTEMS

HIGH OUTPUT LINE ARRAY MODULES.

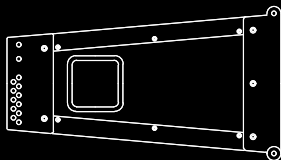
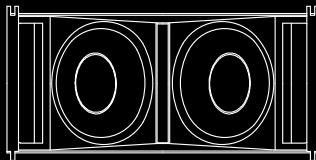
TECHNOLOGY
BY FOHNN®



WaveLine Compact PT-8

Very compact and powerful line array module, twin-coaxial, fully horn-loaded, 2x6,5" neodymium, 1x1,5" neodymium driver with HF phase EQ. Impedance: 16 ohms.

Applications: venues, opera, conference halls, theatres, churches, etc.



WaveLine PT-9

High output line array module, 2-way twin-coaxial, fully horn-loaded 2x10" neodymium, 3" coil, 1x2" neodymium driver with HF phase EQ.

Applications: large venues, arenas, conference halls, churches, etc.

Perform WaveLine systems are completely symmetric line arrays that are capable of generating virtually identical acoustic sound patterns on the right and left and can be aligned accurately and symmetrically. The systems operate with very powerful cone speakers (neodymium technology), which are positioned symmetrically so that the horn produces a dispersion angle of approximately 110°.

There is a diffraction gap between the two cone speakers that separates the two bass reflex chambers with help from the multi-channel phase EQ. The spherical sound wave dispersed by high power compression drivers is converted into a coherent wave front

by the time delay in the multichannel phase EQ. The wave then exits the diffraction gap to produce a cylindrical wave across the entire frequency range.

The large voice coils of the high-frequency drivers can produce a relatively deep crossover frequency, whereby the acoustic performance is dramatically increased. We recommend using the Fohhn subwoofer system PS-9 *active* or XS-4/XS-4 *passive* to maximise system performance for live music events. More detailed information at www.fohnn.com.

WaveLine Compact PT-8



WaveLine PT-9



WAVELINE LINE ARRAY SYSTEMS

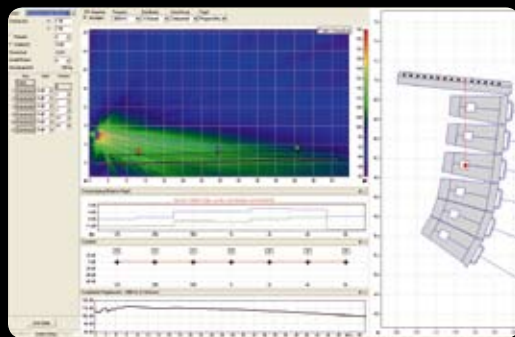
OPTIMAL PLANNING. PERFECT REALISATION.

100%
PASSION



The WaveLine system amplifier A2-2.100

2-channel DSP amplifier, 2 ohms stable, class H, lightweight (only 14 kg), switch mode power supply, 2HE, 2x2100W / 2 ohms. Remote operation via laptop or remote control devices FR-30 and FR-40. Further details included in the Section "A series amplifiers" or at www.fohnn.com.



Simulation software EASE FOCUS

Fohhn recommends EASE Focus Aiming Software by SDA (Software Design Ahnert GmbH) for simulating and measuring acoustic configurations. This two-dimensional acoustic simulation software realistically configures and arranges line arrays. The program, product-specific system file (Fohhn-WaveLine.efo) and the load evaluator (flying calculator) can be downloaded free of charge at www.fohnn.com.



TECHNOLOGY
BY FOHNN®

SUBWOOFER PS-9 ACTIVE

FOHHN PRESENTS A NEW WORLD FIRST: TECHNOLOGY WITH ELECTRONICALLY CONTROLLED 21” WOOFER POWERED BY A 8500W* DSP AMPLIFIER IS THE BEGINNING OF A NEW ERA OF SUBWOOFER TECHNOLOGY.

Highest SPL with perfect controlled sound. PS-9 active is a DSP-controlled subwoofer with integrated 8500W* CLASS D amplifier and an innovative 21” woofer. The patented 21” speaker has a very long excursion of 60 mm and an impedance of 0.5 ohms. The power output is equivalent to four high-power 18” woofers.

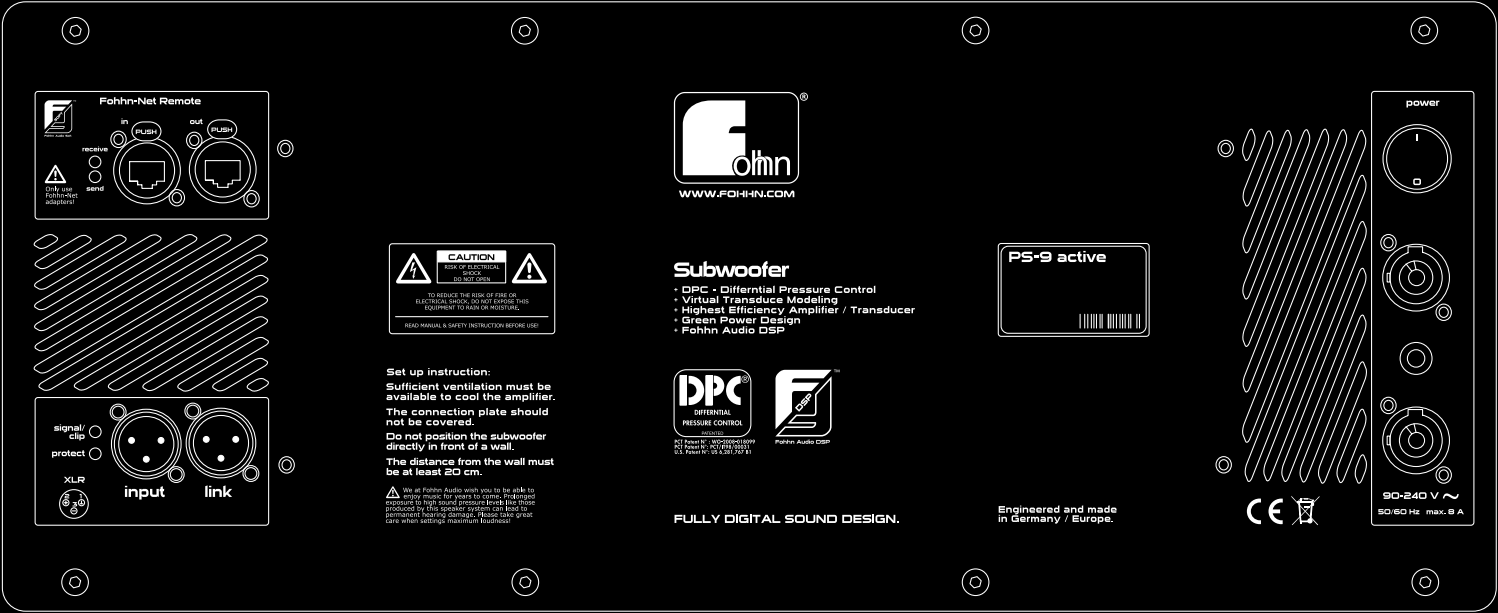
The excursion of the speaker membrane is permanently controlled by patented DPC® (Differential Pressure Control) technology. This technology generates extremely high pressure levels and produces a very tight, controlled bass response.

*8500W peak power

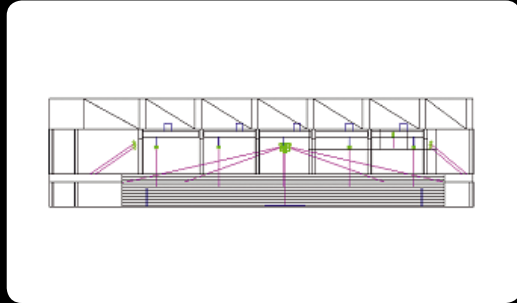
The sub PS-9 active is ideal for large venues, clubs or stadiums requiring higher levels of bass. It is also a perfect partner for WaveLine line array systems. The PS-9 active is equipped with state-of-the-art DSP signal processors developed and made by Fohhn and can be operated and controlled via the Fohhn Net network. The high-quality wooden housing is finished with a tough durable PU coating.



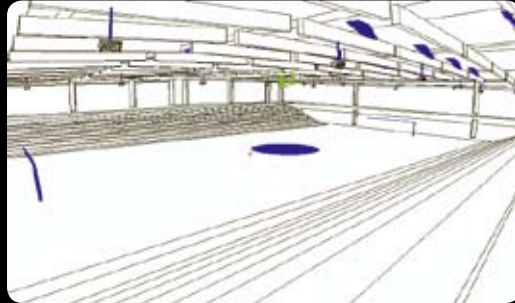
PCT Patent N°: WO-2008-018099
PCT Patent N°: PCT/IT98/00031
U.S. patent N°: US 6,281,767 B1



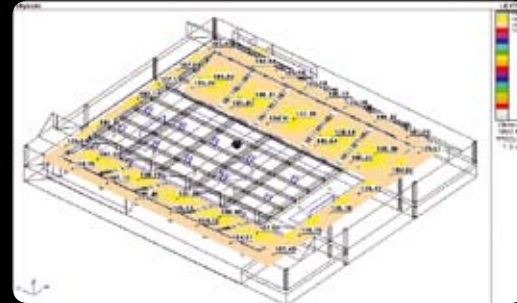
PLANNING AND SUPPORT



Architects create the best design.



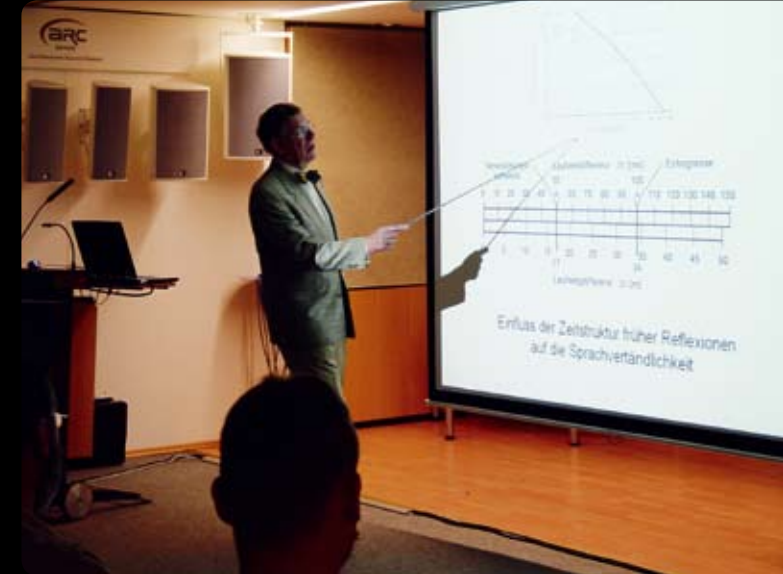
Fohhn simulates the sound in a virtual environment.



Sound dispersed to every corner of the hall.

No two projects are the same. The acoustics vary from venue to venue. This is why sound planning is vital in determining how the actual sound will be heard at the location. Fohhn starts planning at an early stage by consulting planners, architects and fitters, and then discusses the different acoustic and design requirements together with the customer.

If required, a professional acoustics simulation can be run to determine which speaker system is most suitable for the application. Important project parameters such as anticipated volume levels, speech intelligibility and the evenness of sound distribution are defined during this process. The sound experts at Fohhn can then assist the customer with speaker system calibration if required and carry out a final inspection at the venue.



We are offering regular audio seminars for Fohhn partners.

Seminar for church acoustics with Prof. Dr Jürgen W. Meyer (left image)

Seminar for room simulation and acoustic measuring with Prof. Dr. Ahnert (above).



WWW.FOHHN.COM

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Fax +49 7022 93324-0 • info@fohhn.com • www.fohhn.com

The attention to detail continues here: www.fohhn.com

On our website www.fohhn.com you will find: detailed product descriptions, technical specifications, accessories, detailed data sheets for download, 360°-view product demonstrations, manuals, PDF catalogues, CAD drafts, 2D and 3D DWG-files, Fohhn software, firmware updates, EASE and Ulysses simulation data, references and much more. Visit our website!

Dealer adress: