CONCERT
SOUND
EVOLUTION
When line array technology evolves – and beam steering reaches its next level.

Focus Venue is a straight-flown, active, modular line array system that was designed for sound reinforcement in concert halls, stadia, arenas etc. This technological revolution was accomplished by Fohhn, a beam steering and digital technology pioneer. Combined with the new PS-850 subwoofer driven by the DI-2.2000 amplifier the Focus Venue becomes an ideal concert sound system for various challenges.
Focus Venue
A modular beam steering line array for concert sound

- Extremely even & balanced sound coverage
- Excellent sound quality & clarity
- Enormous SPL & dynamics
- Unparalleled flexibility & scalability
- Perfect visual integration

Focus Venue
Modules & Accessories

**FV-100**
High-frequency module
- 8 × 1” (1.75” diaphragm) compression driver
- 8 × 15” (4” diaphragm) compression driver
- Manifold horn-loaded waveguide design
- 16 × 250 W CLASS D DSP amplifier
- Max. SPL: 150 dB

**FV-200**
Low-mid module
- 8 × 10” long excursion woofer
- Horn-loaded waveguide design
- 4 × 1000 W CLASS D DSP amplifier
- 4 × DSP
- Cardioid Technology (CDT)
- Max. SPL: 145 dB

**Dolly Board**
Safe transport for FV-100 and FV-200 modules. The units can be directly connected to the dolly board via the built-in Fohhn Interlock System.

**Flying Cradle**
Complies with the directives and provisions of DGUV Regulation 17.

**Additional Accessories**
Stacking cradle, pull-back bar, extension bar, transport cover, single wheelboard. Safe and quick handling guaranteed.

**Beam Steering – no mechanical curving needed.**

The system is always flown or stacked straight.

Sound beams are controlled in real time via Fohhn Audio Soft.

**Fast and safe rigging with our Fohhn Interlock System**

Discover a new generation of rigging hardware. Simple, tool-free, safe and fast. Significantly less time is spent on system set-up.
Focus Venue
Superior technology leads to superior results

Focus Venue impressively combines state-of-the-art electronics with extraordinary acoustic design and a new generation of rigging hardware. This results in a high-performance sound system with top sound quality and unprecedented flexibility and scalability. Digital audio networking connectivity is ensured: Focus Venue comes with both AES/EBU- and AIREA inputs. Optionally available Input Interfaces allow for a connection to analog signal chains or digital audio networks such as Optocore or Dante™.

V8

The power of V8

Thanks to the close distance of Focus Venue’s high-frequency drivers and its manifold horn-loaded Waveguide design, comb filter effects do not occur – these will occur, by definition, when using a conventional line array. Therefore, natural sound and great clarity can always be guaranteed.

Rock the crowd – not the neighbours.
Cardioid technology can effectively reduce (unwanted) low-mid rear sound emissions. Our patented Convertible Dispersion Technology (CDT) is integrated into every low-mid module. This allows a user to switch remotely between cardioid and vented operation.
PS-850 subwoofer
The perfect low end for concert sound

A high-performance subwoofer system
Non-turbulent port design
Retrofit Fohhn Interlock rigging system
Additional Speakon inputs on the front for cardioid setups
An entire set of accessories

With the launch of our new PS-850 subwoofer, our concert sound system Focus Venue is powerfully complemented in the low-frequency range. By combining it with our new DI-Series amplifier DI-2.2000 and sophisticated accessories, a perfect integral system is formed.

Using Fohhn subwoofers powered by DI-Series system amplifiers allows for real-time control of a sub array’s dispersion characteristics via Fohhn Audio Soft.

PS-850 System subwoofer

PS-850 System subwoofer

PS-850
System subwoofer

2 × 18˝ woofer, 2000 W
Non-turbulent port design, vented system
Cut-off frequency 27 Hz
Multiplex birch plywood enclosure, PU-coated
Optional flying equipment
Weight: 105 kg

PS-850
System subwoofer

Beam Steering – Focus Sub Array

A passive PS-850 sub array is stacked or flown straight.

DI-2.2000 system amplifiers power and control the sub array

Sound beams are steered in real time via Fohhn Audio Soft.

PS-850 System subwoofer

Flying Cradle
Complies with the directives and provisions of DGLUV Regulation 17.

Dolly Board
Safe transport for up to 4 units, optional direct connection via built-in Fohhn Interlock System. Transport covers available.

Wheel Board
Safe transport of one unit, SmartLock mounting. Transport cover available.

Retrofit Fohhn Interlock System
Our simple and tool-free rigging system can be retrofitted to any non-flown PS-850 subwoofer.
DI-2.2000 system amplifier:
100 % performance.
100 % reliability.
100 % Fohhn.

High-performance amplification built to order:
Get the connection that meets your requirements.

Whenever you order a Fohhn DI-Series amplifier, you can always preconfigure its input- and output connections: Input options include AES/EBU (terminal block or XLR), Dante™, Optocore, Fohhn AIREA and Analog (XLR). For signal outputs, you can choose between terminal blocks or Speakon connectors.

- Up to 10 seconds of peak power*
- Designed for both mobile applications and fixed installations
- Networking, remote control and monitoring via Fohhn Audio Soft
- Extensive DSP input- and output processing
- Power supply that includes a microprocessor with various sensory functions – voltage, current, temperature, humidity and power demand – to ensure optimal operation and device protection
- Universal 100-240 V AC power supply with Power Factor Correction (PFC)
- Auto power save function enabling fanless idle operation, temperature-controlled fans
- Two configurable switching contacts and a fault contact

* all channels full-range-driven with pink noise (6 dB crest) into 4 ohms resistive load
Beam Steering:
Perfect control in real time.

Fohhn Audio Soft version 5.0 offers a comprehensive set of Beam Steering features:

- Vertical dispersion: 0 – 90°
- Sound inclination angle: +/-40°
- Precise adjustment in 0.1° increments
- Two Beam Technology: two beams possible per module – each beam can be controlled separately.
- Side Lobe Free Technology: effective suppression of unwanted side lobes
- Moveable acoustic centre
- Asymmetric beams possible
- High-class audio tools like parametric EQs, Dynamics, X-Over etc.

The result is an exceptional evenness of sound pressure levels and sound quality in every row. Fewer room reflections. More direct sound. Perfect intelligibility.

One piece of software controls the entire system: Fohhn Audio Soft.

- Direct and intuitive remote control of Fohhn systems in real time
- A clear graphical user interface gives speedy access to all connected audio devices, group functions, software presets and to the Focus Simulation.
- Devices can be controlled via PC using a Fohhn-Net USB- or Ethernet adapter.
- All settings can be saved as presets.
- Up to 254 devices can be networked and remotely controlled.

State-of-the-art technology and dedicated software have been closely developed in tandem by our engineers and finely tuned for perfect compatibility. No other software program is required; everything is included in a single intuitive application - Fohhn Audio Soft. The advantages are obvious: No unnecessary waiting time while data is transferred between software programs, or computer processes are completed. Loudspeakers do not have to be muted at any time while settings are optimised. Both the software and loudspeaker systems are permanently online and in constant communication with one another. Every adjustment can be made in real time, guaranteeing problem-free live control of all connected Fohhn systems.
WELCOME TO THE SYSTEM

Focus Venue
straight line array

DI-Series System Amp
DSP-controlled amplifier

Subwoofer
Flyable 2 × 18˝ subwoofer

Fohhn Audio Soft
real-time control of the entire system

FV-100
FV-200
DI-2.2000
PS-850
Focus Venue

Standard module combinations

1 × FV-200
1 × FV-100

2 × FV-200
1 × FV-100

1 × FV-100
2 × FV-200
1 × FV-100

3 × FV-200
1 × FV-100

... and more

PS-850

Standard or cardioid configuration

Sub array, standard configuration

Sub array, cardioid configuration

The PS-850 can also be used in a cardioid setup.
Integrated Speakon connectors at the front grille for simplified cabling.
Application examples

180° sound reinforcement
Sound systems flown side by side in the tightest of spaces, since mechanical curving is not applied.

360° sound reinforcement
360° sound reinforcement in the tightest of spaces, since mechanical curving is not applied.

Loving neighbours – side by side
The HF- and LF modules can be flown or installed side by side without causing interferences due to a crossover slope of 48 dB/Oct.

Full-range beam steering including sub array
Mechanical and optical compatibility of Focus Venue and Perform-Series subwoofers, full beam steering performance across the entire frequency range.
A sound system integrated into LED walls
Seamless integration without mechanical curving, no interferences of visual axes, minimal space requirement.

Stack your PA
You can also stack your entire system. An optional stacking cradle for Focus Venue arrays will be available soon.

Mechanical pre-tilting possible
Beam steering and mechanical pre-tilting up to 40° guarantee perfect sound dispersion for every application. The integrated tilting sensor displays the actual angles.

Seamless integration
Since they are flown straight, all of our systems can be integrated easily and almost invisibly.
Anastacia’s straight line array

E-Werk, Cologne, Germany
Anastacia’s “Music Loves Fashion” event

EQUIPMENT USED
4 × Focus Venue FV-100
4 × Focus Venue FV-200
9 × PS-9 active subwoofer
4 × PT-70 as near fills

“Focus Venue combines the sound and performance of a traditional line array with the flexibility and precision of a vertical beam steering system. The side-lobe-free mode and the cardioid technology allow previously unavailable control of your sound and thanks to the scalability of Focus Venue, it’s always the perfect system whether you’re playing in a club or an arena.”

Chris Madden (FOH sound engineer, Pink, Anastacia, Sade)
Germany’s modular line array

Rhine Bank, Mainz, Germany
German Unification Day

EQUIPMENT USED
6 × Focus Venue FV-100
8 × Focus Venue FV-200
3 × Focus Modular FM-400
2 × Focus Modular FM-100
Dresden’s precise sound reinforcement

Elbe Bank, Dresden, Germany
“Filmmächte am Elbufer” open-air event

EQUIPMENT USED

6 x Focus Venue FV-200
3 x Focus Venue FV-100
4 x PS-9 active subwoofer
Creberg Theatre, Bergamo, Italy
Concerto delle Stelle

**EQUIPMENT USED**

- 2 × Focus Venue FV-100
- 2 × Focus Venue FV-200
- 6 × PS-9 active subwoofer
- 8 × XM-4 stage monitors

Bergamo’s easy rigging experience

Angelos Pelliccioli, Sound Service, Italy

"I chose Focus Venue because it is the future of the Line Array."
Technical Data

### FV-100

<table>
<thead>
<tr>
<th>ELECTROACOUSTIC FEATURES</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Acoustic design</td>
<td>electronically steerable high frequency line array speaker, manifold horn-loaded waveguide design</td>
</tr>
<tr>
<td>Components</td>
<td>8 × 1˝ (1.75˝ diaphragm) compression driver, 8 × 1.5˝ (4˝ diaphragm) compression driver</td>
</tr>
<tr>
<td>Operational mode</td>
<td>2-way active, 16 × DSP amplifiers, Class-D</td>
</tr>
<tr>
<td>Max. SPL (1 m)</td>
<td>150 dB</td>
</tr>
<tr>
<td>Frequency range</td>
<td>800 Hz – 20 kHz</td>
</tr>
<tr>
<td>Beam dispersion angle, horizontal</td>
<td>90°</td>
</tr>
<tr>
<td>Vertical beam width, digitally controlled</td>
<td>0° to +90° in 0.1° increments</td>
</tr>
<tr>
<td>Vertical inclination angle, digitally controlled</td>
<td>−40° to +40° in 0.1° increments</td>
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<tr>
<td>Acoustic centre</td>
<td>moveable between 0 – 100 % (from speaker bottom to top)</td>
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<th>LOUDSPEAKER FEATURES</th>
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<tbody>
<tr>
<td>Enclosure</td>
<td>multiplex birch plywood</td>
</tr>
<tr>
<td>Protection grille</td>
<td>steel, powder-coated</td>
</tr>
<tr>
<td>Dimensions (W × H × D)</td>
<td>approx. 560 × 635 × 595 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>approx. 92 kg</td>
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<th>ELECTRONIC FEATURES</th>
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<tr>
<td>Amplifier power</td>
<td>16 × 250 W</td>
</tr>
<tr>
<td>Amplifier type</td>
<td>Pure Path Digital PWM</td>
</tr>
<tr>
<td>DSP-channels</td>
<td>16</td>
</tr>
<tr>
<td>Frequency response</td>
<td>20 Hz – 20 kHz</td>
</tr>
<tr>
<td>Signal/Noise-Ratio</td>
<td>&gt; 105 dB/A</td>
</tr>
<tr>
<td>Protective circuit</td>
<td>softstart, overheating, short circuit, overload</td>
</tr>
<tr>
<td>Power supply</td>
<td>100 V – 240 VAC, 50/60 Hz switching power supply with Power Factor Correction (PFC), innrack current limiter, power-up delay</td>
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<th>AUDIO SIGNAL INPUTS</th>
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<tr>
<td>Digital audio inputs</td>
<td>1 × AES/EBU or 1 × AREA powered</td>
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<tr>
<td>Input processing</td>
<td>yes, 2 × DSP</td>
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<td>Fohhn-Net over RS-485, Fohhn Audio Soft</td>
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<td>Remote monitoring</td>
<td>Temperature, Protect, AES/EBU Signals, Power Supply, Fohhn-Net, Fohhn Audio Soft, Tilt sensor</td>
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<tr>
<td>Acoustic design</td>
<td>electronically steerable low-mid line array speaker, horn-loaded waveguide design, Cardioid Technology (Fohhn CDT)</td>
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<tr>
<td>Components</td>
<td>8 × 10˝ long excursion driver</td>
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<td>Operational mode</td>
<td>active, 4 × DSP amplifiers, Class-D</td>
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<td>Pure Path Digital PWM</td>
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<td>Frequency response</td>
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Technical Data

**DI-2.2000**

**ELECTRONIC FEATURES**

- **Amplifier technology**: Class D
- **Output power**: 2 × 2000 W / 4 ohms
  - 2 × 1000 W / 8 ohms
- **Minimum impedance**: 4 ohms
- **DSP input channels**: Fohhn Audio DSP 4
- **Amplifier outputs**: 2
- **Frequency response**: 20 Hz - 20 kHz
- **S/N ratio**: >100 dB/A
- **THD+N**: 0.08% [1]
- **Dynamic range**: >120 dB, A-weighted 20 Hz – 20 kHz
- **Protective circuit**: Over voltage protection, over current protection, over temperature protection, short-circuit protection, DC protection, power on delay, soft start and inrush current limit, humidity sensing
- **Remote control**: Fohhn-Net, Fohhn Audio Soft
- **Remote monitoring**: Temperature, protect, signals

**MECHANICAL FEATURES**

- **Cooling**: Temperature-controlled fan
- **Weight**: 9.4 kg
- **Dimensions (W × H × D)**: 2HU / 19˝, 485 × 89 × 425 mm
- **Display (front)**: 1 × receive LED, 1 × send LED, 1 × power LED, 1 × protect/error LED, 4 × input LED, 2 × output LED

**AUDIO SIGNAL INPUTS/ OUTPUTS**

- **Audio inputs**: 2 × Phoenix 3-pin AES/EBU, 1 × Phoenix 3-pin Fohhn-Net
- **Optional input interfaces**: AES/EBU XLR, Analog XLR, Dante, Optocore
- **Audio outputs**: 2 × Phoenix 2-pin
- **Optional output interface**: 2 × Speaker

**ELECTROACOUSTIC FEATURES**

- **Acoustic design**: Direct radiating, vented design, NTP (non-turbulent port design)
- **Components**: 2 × 18˝ long excursion driver, 4.5˝ voice coil, water-resistant cones
- **Power rating (nominal)** [1]: 2000 W
- **Max. SPL** [2]: 142 dB
- **Cut-off frequency** [3]: 27 Hz
- **Nominal impedance**: 4 ohms

**MECHANICAL FEATURES**

- **Enclosure**: Multiplex birch plywood
- **Protection grille**: Hexagonal perforated steel grille
- **Finish**: Powder-coated in enclosure colour
- **Backed by acoustically transparent foam
- **Fittings**: 1 × M20 thread for distance rod, 4 × slot for Interlock rigging system, 2 × catch for optional front panel
- **Connections**: Rear: 2 × Neutrik NL4 Speakon, recessed Front: 2 × Neutrik NL4 Speakon for cardioid setups
- **Weight** [4]: 110/104 kg with/without FIS
- **Wheels**: 2 × fitting for optional wheel-board
- **Handles**: 4 handles on each side
- **Miscellaneous**: 2 × rubber skid on bottom, 2 × matching slot on top, 4 × rubber foot on each side, 1 × fitting for cable strain relief on rear panel

**OPTIONAL FEATURES**

- **Weather protection**: Polyurethane coating with additional UV-resistant finish, additional water-repellant speaker cone impregnation

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[2] Peak, 20 ms with bandpass filtered pink noise signal according to IEC
[3] -10 dB under anechoic halfspace-conditions with speaker preset
[4] Net weight without optional equipment
Made in Germany – Made by Fohhn.
The entire Fohhn product range is developed, engineered and built by our team in Nürtingen, Germany.