

Focus Venue

FV-100

Active high frequency module with Beam Steering,
8 × 1" / 8 × 1.4", 800 Hz – 16 kHz, 560 × 639 × 595 mm



Focus Venue FV-100

The FV-100 is the high frequency module of the scalable Concert Sound System Focus Venue. The active high-performance loudspeaker, in combination with the FV-200 low-mid module and PS-800 or PS-850 subs, is the first choice for sound reinforcement of medium to large festivals, stadiums, concert halls, and theatres. The modules are equipped with innovative Fohhn power amp, DSP and digital network technology. Thanks to the Fohhn Beam Steering Technology, the dispersion can be controlled in real time and there is no need to angle the array mechanically. This makes perfect visual integration possible in stage design, architecture and next to large screens.



Main features

- 8 × 1" and 8 × 1.4" compression driver (1,75" / 4" voice coil)
- 16 × 250 W class-D DSP amplifier
- frequency range: 800Hz – 16 kHz
- Max. SPL: 150 dB (one module)
- Convenient real-time control of vertical dispersion with Fohhn Audio Soft
- Vertical beam width: 0° to 90°, sound inclination angle: -40° to +40° (adjusted in 0.1° increments)
- Fohhn Two Beam Technology
- Fohhn Side Lobe Free Technology
- Extremely even and balanced sound coverage, from the front to the last row
- Fast and safe rigging thanks to integrated Fohhn Interlock System



Available with the following color options



Black

Equipped with the following Fohhn technologies



Fohhn Beam
Steering
Technology



Fohhn Source
Division
Waveguide



Fohhn Area



Fohhn DSP
inside



Flyable product



Special colors
optional



Fohhn Interlock
System



Ball impact
resistant



Weatherproof
execution

Possible input interfaces for this product

AES/EBU

AIREA

Technical data

Electroacoustic features

acoustic design	electronically steerable line array speaker
components	8 × 1" (1.75" VC) , 8 × 1.4" (4" VC) compression drivers Manifold hornloaded Waveguide Design
maximum SPL	150 dB (108 dB @ 100 m)
frequency range	800 Hz – 16 kHz
operational mode	active, 16-channel DSP-amplifier, Class-D
beam dispersion angle, horizontal	90°
vertical beam width, digitally controlled	0° – 90° in 0.1° increments
vertical inclination angle, digitally controlled	-40° – +40° in 0.1° increments
acoustic centre	0% (bottom) to 100% (top), both beams movable

Loudspeaker features

enclosure	multiplex birch plywood
front design	hexagonal perforated steel grille in cabinet colour, backed by acoustically transparent foam
weight	approx. 107 kg
standard colours	scratch-proof polyurethane coating, black
mounting points	integrated flying tracks, 4 × M8-threads at rear tracks
dimensions (W × H × D)	560 × 639 × 595 mm

Optional features

optional colours	RAL Classic / NCS / Pantone on request
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CAAD simulation data

simulation data	EASE
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Electronic features

amplifier type	Pure Path Digital PWM
audio inputs	AES/EBU
audio outputs	AES/EBU
amplifier power	16 × 220 W
DSP channels	16
frequency response	20 Hz – 20 kHz
signal/noise ratio	>105 dB/A
auto power save	adjustable from 1 s to 12 h, or never active
protective circuit	soft start, overtemperature, short circuit, overload
power supply	100 V – 240 V AC 50/60 Hz, power supply with Power Factor Correction (PFC)
power consumption	500 W RMS, idle 58 W, standby 10 W
heat dissipation	124 W, 427 BTU/h, 107 kcal/h
temperature range	0 – 40°C
cooling	temperature-controlled fan
weight (electronics)	10.9 kg
	AES/EBU

Controller

digital signal processors	2
independent limiters	6
FIR filter	yes
input gain	-80 dB – +12 dB
routing gain	-80 dB – +12 dB
output gain	-80 dB – +12 dB
EQ	10-band parametric EQ, Gain, +/-12 dB, Frequenz 10 – 20 kHz, Q 0.1 – 100
selective 3-band limiting	bass / mid / high
limiter / compressor	yes
noise gate	yes
X-over	Linkwitz-Riley 4th order (24 dB/octave), high pass 10 Hz – 20 kHz, low pass 10 Hz – 20 kHz
delay input	0 – 350 ms (0 – 120 m)
delay output	0 – 640 ms (0 – 220 m)
system latency	1.2 ms
band-specific time constants	yes
filter technology	80-bit double precision
input	AES/EBU 32 kHz – 96 kHz, 16/24 bit
Input DSP processing	yes

Remote control and remote monitoring

remote control	Fohhn Audio Soft, Fohhn-Net
remote monitoring	temperature, protect, signals, power supply, Fohhn Net, Fohhn Audio Soft
simulation beam	Fohhn-Net, Fohhn Audio Soft

Connections and controls

control elements	mains switch (remote-controllable via AIREA connect)
inputs	1 × etherCON Airea Connect / stack link, 1 × XLR AES/EBU, 1 × etherCON Fohhn-Net
outputs	1 × etherCON stack link, 2 × XLR AES/EBU, 2 × etherCON Fohhn-Net
signal inputs	AES/EBU 32 kHz – 96 kHz, 16/24 bit
signal outputs	AES/EBU link-out from input
mains connection	1 × PowerCON mains in, 1 × PowerCon mains out

Display LEDs

Sign LED (connector panel and front grille)	blue = power on, blue flashing = sign
status LED	green = ready, red = protect/standby, red flashing = fault
receive / send LED	receive/send remote control LED
audio error LED	red = no AES/EBU
remote power LED	green = AIREA connect aktive, remote power on
on (stack link) LED	green = stack link aktive

power rating (nominal/program): according to IEC-60268-5 long term

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

sensitivity: 2,83 V at 8 ohms (2 V at 4 ohms, 4 V at 16 ohms) at a distance of 1 m under anechoic fullspace conditions

frequency range: -10 dB under anechoic halfspace-conditions

weight: net weight without optional equipment

Intelligent Protection Circuit (IPC): voltage-controlled semiconductor circuit protecting the HF-driver against overload highly effective and with very short attack time

cut-off frequency: -10 dB under anechoic halfspace-conditions with speaker preset

heat dissipation: pink noise, 6 dB crest, 1/4 Pmax

Fohhn Audio AG
Großer Forst 15
72622 Nürtingen
Germany

Phone +49 7022 93323-0
Fax +49 7022 93324-0
www.fohhn.com
info@fohhn.com

