

# 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 × 220 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



Fohhn Interlock  
System



Weatherproof  
execution



Auto Power  
Save

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                                                    |
| nominal dispersion, 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                                                |

## physical 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                                                                           |

## CAAD simulation data

|                 |                      |
|-----------------|----------------------|
| simulation data | EASE, Fohhn Designer |
|-----------------|----------------------|

## 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                                                                    |

| <b>Controller</b>            |                                                                                            |
|------------------------------|--------------------------------------------------------------------------------------------|
| 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, frequency 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

|                  |                                                                                  |
|------------------|----------------------------------------------------------------------------------|
| mains connection | 1 × PowerCON mains in, 1 × PowerCon mains out                                    |
| 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                                                      |

#### 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                                  |

weight: net weight without optional equipment

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

nominal dispersion, beam width: -6 dB compared to the main dispersion axis

**Fohhn Audio AG**  
**Großer Forst 15**  
**72622 Nuertingen**  
**Germany**

**Phone +49 7022 93323-0**  
**Fax +49 7022 93324-0**  
**[www.fohhn.com](http://www.fohhn.com)**  
**[info@fohhn.com](mailto:info@fohhn.com)**

