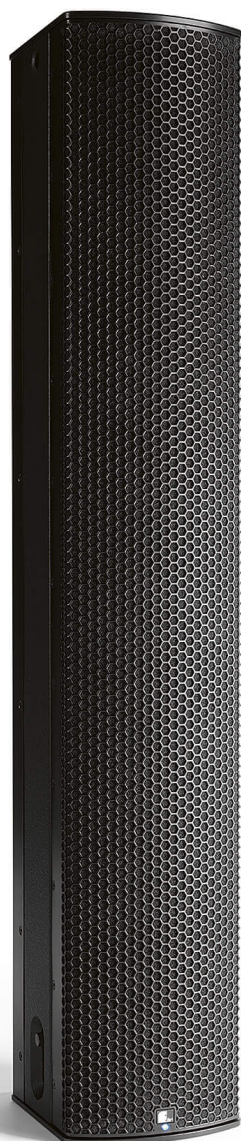


Focus Modular

DFM-110

带波束转向的有源高频模块，16×1"压缩驱动器



AES/EBU

AIREA

Focus Modular DFM-110

DFM-110 是一个具有Fohhn波束转向技术的有源高频模块，它可以灵活地与中低频模块组合。我们著名的新一代系统现在已经完全数字化，并提供进一步开发的Fohhn DSP和数字信号连接。经过声学上的重新设计，配备了更加强大的驱动器，DFM提供了出色的发烧级声音和最佳的语言清晰度。一个高品质和高性能的解决方案，适用于大型会议室、剧院甚至是露天音乐会，而所有这一切都与一个仅有约22厘米宽的箱体有关，由于采用了波束转向技术，它可以直接吊挂并无缝集成。DFM-400 Focus Modular Fohhn DSP

Main features

- 16 × 1 "压缩驱动器，带1.75 "音圈，带波导的号角式负载
- 16个集成D类放大器
- 优化的Fohhn DSP 内部结构
- 从输入到放大器的全数字信号流
- Q-SYS插件可用于Fohhn NA-4 或 ABX-6。
- 单模块最大声压级：148 dB (108 dB @ 100 m)
- 通过Fohhn Audio Soft，可实时控制声音垂直分布
- 垂直波束宽度：0°到90°，声音倾斜角度：-40°到+40°（以0.1°为单位步进调整）。
- 可以控制两个独立的光束
- Fohhn无旁瓣技术
- 由于采用了Fohhn快锁系统，使得安装非常容易。

有以下颜色可供选择



黑色

配备了以下Fohhn技术



Fohhn Beam
Steering
Technology



傅汉文Airea



Fohhn DSP 内幕



可吊挂的产品



特殊颜色可选



自动省电模式

该产品可能的输入接口

AES/EBU

AIREA

技术数据

Electroacoustic features	
acoustic design	electronically steerable line array speaker
components	16 × 1" (1.75" VC) compression drivers Hornloaded Waveguide Design
maximum SPL	148 dB (108 dB @ 100 m)
frequency range	1.7 kHz – 16 kHz
operational mode	active, 16-channel DSP-amplifier, Class-D
horizontal dispersion	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) movable, both beams
Physical features	
enclosure	multiplex birch plywood, Aluminium
dimensions (w × h × d)	224 × 1285 × 274 mm
weight	41 kg
standard colours	textured paint / powder coating, black
front design	hexagonal perforated steel grille in enclosure colour, backed by acoustically transparent foam
protection grille	steel grille, ball impact resistant, powder-coated
mounting points	integrated flying tracks, 4 × M8-threads at rear
Optional features	
optional colours	RAL Classic / NCS / Pantone on request
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 × 120 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)
inrush current	7,5 A (230 V) / 3,8 A (115 V)
power consumption	500 W RMS, idle 30 W, standby 10 W
heat dissipation	140 W, 482 BTU/h, 121 kcal/h
temperature range	0 – 40° C
cooling	temperature-controlled fan
weight (electronics)	5.5 kg

Controller	
digital signal processors	2
independent limiters	6
FIR filter	yes
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
delay	Input: 0 – 350 ms (0 – 120 m); Output: 0 – 640 ms (0 – 220 m)
X-over	Linkwitz-Riley 4th order (24 dB / octave), high pass 10 Hz – 20 kHz, low pass 10 Hz – 20 kHz
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	
controls	mains switch (remote-controllable via Airea Connect)
mains connection	1 × PowerCON mains in, 1 × PowerCon mains out
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 active, remote power on
on (stack link) LED	green = stack link active

额定功率（峰值）；最大声压级：峰值，20毫秒，带通滤波粉红噪声信号，符合IEC 60268-2标准，频率范围下限以上一个八度，扬声器预设
 频率范围：-10分贝，在消声半空间条件下，扬声器预设
 重量：净重，不含可选设备
 散热：粉红噪声，6分贝波峰，1/4 Pmax
 标称频散：与主频散轴相比，-6分贝

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