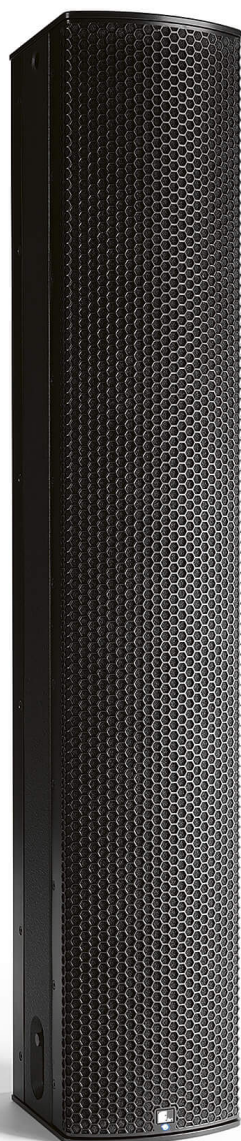


Focus Modular

DFM-110

Aktivt højsfrekvensmodul med Beam Steering, 16 × 1"
kompressionsdriver



AES/EBU

AIREA

Focus Modular DFM-110



DFM-110 er et aktivt højfrekvensmodul med Fohhn Beam Steering - teknologi. Det kan kombineres fleksibelt med lavmellemtone-modulerne DFM-400. Den nye generation af vores anerkendte Focus Modular system er nu fuldt digitaliseret og har videreudviklede Fohhn DSP og digitale signalforbindelser. DFM er akustisk redesignet og udstyret med endnu kraftigere drivere og leverer fremragende, audiofil lyd og den bedste taleforståelighed. En højkvalitets og højtydende løsning til større konferencelokaler, teatre og endda open-air koncerter. Og alt dette med et kabinet, der kun er ca. 22 cm bredt, og som kan flyves lige og integreres problemfrit takket være beam steering.

Main features

- 16 × 1" kompressionsdrivere med 1,75" svingspole, hornbelastet med waveguide
- 16 integrerede Class D forstærkere
- Optimeret Fohhn DSP struktur indeni
- Fuldt digitalt signalflow fra indgang til forstærker
- Q-SYS Plugin fås i kombination med Fohhn NA-4 eller ABX-6
- Max. SPL enkeltmodul: 148 dB (108 dB @ 100 m)
- Vertikal spredning styres i realtid via Fohhn Audio Soft
- Spredningsgrad: 0° til 90°, hældningsgrad: -40° til +40° (justeret i intervaller på 0,1°)
- to separate bjælker kan styres
- Fohhn Side Lobe Free Technology
- Nem rigning takket være Fohhn Quicklock System



Fås med følgende farvevarianter



Sort

Udstyret med følgende Fohhn-teknologier



Fohhn Beam
Steering
Technology



Fohhn Aireal



Fohhn DSP inde
på



Flyverbart
produkt



Særlige farver
valgfrt



Auto Power
Save

Mulige indgangsinterfaces for dette produkt

AES/EBU

AIREA

Tekniske data

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

nominel effekt (peak); maksimal SPL: peak, 20 ms med båndpasfilteret lyserødt støjsignal i henhold til IEC 60268-2 ved en oktav over frekvensområdets nedre grænse, med højttalerforindstilling
frekvensområde: -10 dB under ekkofrie halvrumsforhold med højttalerforindstilling
vægt: nettovægt uden ekstraustyr
varmeafgivelse: lyserød støj, 6 dB crest, 1/4 Pmax
nominel spredning: -6 dB i forhold til hovedspredningsaksen

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