

# Airea

## AM-4.4

Fohhn Airia matrix with 800 W power supply for up to 16 Airia loudspeakers, 1 U, 1/2 19"



# Airea AM-4.4

The Airia matrix AM-4.4 is the central interface for Fohhn Airia active loudspeakers. It has both a 4 x 8 DSP mix matrix with Fohhn DSP and an 800 W power supply for up to 16 loudspeakers. Remote control and monitoring is possible via Fohhn Net input or USB-C socket.



## Main features

- 4 x 8 mix matrix
- 2 variants available: With analog inputs (AM-4.4 ANA) or Dante Input (AM-4.4 DAN)
- 2-channel AES/EBU input via Fohhn Airia connect
- Fohhn Airia powered outputs (4 x 200 W Airia Net Load)
- Fohhn DSP for every input and output channel
- Two switch contacts inputs for simple integration
- 9.5", 1 U housing with status LEDs
- Mounting brackets for rack included

Available with the following color options



Black



Equipped with the following Fohhn technologies



Fohhn Airia



Fohhn DSP  
inside

Possible input interfaces for this product

Analog

AES/EBU

AIREA®

Dante™

# Technical data

## Physical features

weight	2,05 kg
dimensions (W × H × D)	211 × 45 × 330 mm, 1 HE / 1/2 19"

## Electronic features

system latency	1.2 ms
DSP routing (matrix)	4 × 8
frequency response	5 Hz – 20 kHz
signal/noise ratio	>140 dB/A
THD+N	0,00005%
dynamic range	>140 dB
password protection	yes
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
power supply	100 – 240 V AC 50/60 Hz, universal power supply with Power Factor Correction (PFC)
Airea Net Load total	800 W (4 × 200 W)
power consumption	Maximum (RMS) 500 W, Standby 5 W
heat dissipation	Max. 15 W, 51 BTU/h, 13 kcal/h
temperature range	0 – 40° C
cooling	temperature controlled fan

## Controller

digital signal processors	1
independent limiters	12
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
limiter / compressor	12
noise gate	12
delay	highpass 10 Hz – 20 kHz, lowpass 10 Hz – 20 kHz, 8 × 0 – 72 ms, (0 – 25 m) outputs, 4 × 0 – 30 ms, (0 – 10 m) inputs
X-over	8 × Linkwitz/Riley 4th order, 24dB/oktave
user presets	100
filter technology	80-bit double precision
input DSP processing	yes

## Remote control and remote monitoring

remote control	Fohhn Net over RS-485, USB-C
remote monitoring	temperature, protect, power supply
switching contact	Load Preset, Standby On/Off

### Connections and controls

mains connection	1 × C14 IEC socket
switching contact 1 and 2	1 × phoenix 3-pin
outputs	4 × RJ45, Fohhn Airea powered
USB Config	1 × USB-C socket

### Display (rear)

receive / send LED	Fernsteuerung
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### Input interface analog

input impedance	10 kOhms
frequency response	20 Hz – 20 kHz
latency	1,0 ms
S/N ratio	> 108 dB/A
THD	< 0,005 % typ. < 0,003 % 1 kHz 0 dBu
signal inputs	analog, max. signal +18 dBu, phantompower (24 V DC) switchable
inputs	4 × analog

weight: net weight without optional equipment

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

# Input interface Dante

## Input interface Dante

support for AES67                    yes

latency                                Dante + 0.6 ms

inputs                                 1 × RJ-45 100BASE-T Ethernet, Dante, 4 × 48 kHz



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