



# **Fohhn<sup>®</sup> DSP amplifiers, Fohhn<sup>®</sup> DSP system controller, Fohhn<sup>®</sup> DSP audio signal matrix.**

Perfect control, maximum reliability and first-class sound for all your projects.



# Fohhn DSP amplifiers. D series.

Lightweight, reliable, network-compatible.



All D series DSP amplifiers can be operated remotely via laptop.

## The features.

Digital DSP amplifiers, CLASS D, extremely lightweight, minimum impedance 4 ohms, 19"/2 HE designer housing, rack installation depth approx. 380 mm. Blue 4-line LCD display for intuitive operation and monitoring of amplifiers and DSP functions. Remote operation and monitoring via laptop, handheld device, 8-button wall panel or 19" control devices available.

Network-compatible. Integrated Fohhn Audio DSP for each amplifier channel with 10-band parametric EQ, delay, variable high/low-pass filter, dynamic processor with noise gate, 180° phase reversal and status display for monitoring the temperature and operating time. Integrated speaker management system with default presets for all Fohhn speakers. Ideal for mobile applications and fixed installations. Very quiet due to temperature-controlled fan and noise gate.



Front view D-2.750 (identical to D-2.1500)

## D-2.750

2-channel operation  
2-channel DSP version  
2x 750 W / 4 ohms  
2x 390 W / 8 ohms  
Weight: 9.8 kg

## D-2.1500

2-channel operation  
2-channel DSP version  
2x 1500 W / 4 ohms  
2x 900 W / 8 ohms  
Weight: 10.5 kg

## D-4.750

available July 2007

4-channel operation  
6-channel DSP version  
(2 additional DSP channels available in addition to 4 separate DSPs for amplifier channels.)  
4x 750 W / 4 ohms  
4x 390 W / 8 ohms  
Weight: 14 kg



Rear view D-2.750 (identical to D-2.1500)

Integrated in the D-4.750 is a complete FC-8 System Controller with 6 DSP channels.



Front view D-4.750

2x DSP line out for external amplifiers, active speakers, etc. All DSP functions are available.



Rear view D-4.750



# Fohhn DSP amplifier. A series.

Formidable power reserves and low weight.  
Conforms with EN 60849 / DIN VDE 0828.



**DSP amplifier A-2.2100. The features.**

DSP-controlled 2-channel amplifier, CLASS H, switch mode power supply, 2 ohms stable, lightweight (only 14 kg), 19"/2HE designer housing. Power output: 2x 2100W / 2 ohms. Wear-free digital potentiometer attached to rear for volume control. 2 temperature-controlled fans. Dimensions: 483 x 88 x 454 mm. Remote operation and monitoring via laptop, handheld device, 8-button wall panel or 19" control devices available. Network-compatible. Integrated Fohhn Audio DSP for each amplifier channel with 10-band parametric EQ, delay, variable high/low-pass filter, dynamic processor with noise gate, phase reversal and status display for monitoring the temperature, operating time and impedance. Integrated speaker management system with default presets for all Fohhn speakers. Ideal for mobile applications and fixed installations. System amplifier for the WaveLine line array system.

**Important features for system integration in accordance with EN 60849 / DIN VDE 0828 Regulations in places of assembly (evacuation plans):**

Sequential remote activation via control voltage, fault message contact for analogue evaluation of the operating status, monitoring and intelligent evaluation of all important device parameters. Compatible with Bittner SXL (programmable controller interface) and Bittner AX16 amplifier backup switch.

**A-2.2100**

2-channel operation  
 2x 2100 W / 2 ohms  
 2x 1350 W / 4 ohms  
 2x 900 W / 8 ohms



The A-2.2100 can be operated remotely via laptop.



The FC-8 DSP System Controller can be operated remotely via laptop.

# Fohhn DSP system controller.

Automatic calibration function and integrated speaker management system provide maximum protection for amplifiers and speakers.



**FC-8 DSP System Controller (4 in / 6 out).** available June 2007

Digital DSP system controller with 4 inputs and 6 outputs. 19"/1HE designer housing. Automatic calibration function for all connected amplifiers (computer-aided setup) guarantees maximum protection for both amplifiers and speakers.

Remote operation and monitoring via laptop, handheld device, 8-button wall panel or 19" control devices available. Network-compatible. Integrated Fohhn Audio DSP for each output

channel with 10-band parametric EQ, delay, variable high/low-pass filter, dynamic processor with noise gate, 180° phase reversal and status display for monitoring the temperature and operating time. Integrated speaker management system with default presets for all Fohhn speakers. Ideal for mobile applications and fixed installations.



# Fohhn DSP Audio Signal Matrix.

Equipped with the latest generation of digital signal processors.



## MX-16 – DSP Audio Signal Matrix (16 in / 16 out). available end of 2007

Enormous computing power with an extensive range of functions such as automatic volume control, signal ducking, dynamic processing, crossovers or delays for each channel, parametric 5-band EQs at the input channels and 7-band EQs at all output channels. MX-16 conforms with EN60849, BS5839 and VDE0828.

MX-16 is compatible with EASE 4.2 so you can transfer filter configurations directly from the EASE simulation software to the MX-16 matrix as well as check the effect of the filter settings on the audio matrix directly in the EASE simulation program (EASE 4.2 is fully I/O compatible with GLL formats).



FR-10 Fohhn-Net Remote for easy remote operation of the MX-16 Audio Signal Matrix.

## Equipment features

DSP-based 16x16 audio signal matrix, automatic volume control, signal ducking, dynamic processing, crossover, delay, parametric 5-band EQs (input), parametric 7-band EQs (output), input level, output level, phase, mute function.

- Processor: 2.4 GFLOPs, 800 MMACs
- Inputs: 8 analogue mic/line inputs + 8 analogue line inputs. 24-bit sigma delta A/D converter; phantom power + 48V per channel.
- Outputs: 16 analogue outputs, 24-bit sigma delta D/A converter, max. output level: + 21dBu
- Dynamic amplitude: > 110 dBFS (A-weighted)
- THD+N: <0.005%

- Sampling rate: 48 kHz
- Ethernet 100/10 BaseT, RJ-45, link activity LED
- RS-485: 2 RD-45 (max. 110 kBaud)
- Input contacts: 8 optically isolated inputs (active 4 - 24 V DC/AC)
- Output contacts: 3 programmable relay contacts (max. 2 mA/250 VAC); one relay contact
- Voltage inputs: 8 (0-10V)
- Dimensions: 2 HE, 19", 483 x 88 x 382 mm
- Weight 7 kg

## GUI software:

Control and adjustment of all parameters for signal processing, storing and loading presets, assigning programmable input contacts.

16 x 16  
DSP Audio  
Signal Matrix

