

# Amplificadores de sistema

## DI-2.2000

Amplificador de sistema de alto rendimiento para instalaciones móviles y fijas, 2 × 2000 W, 2 U, 19".



Analog

AES/EBU

 Dante™

# Amplificadores de sistema DI-2.2000



El DI-2.2000 es un amplificador digital de 2 canales fabricado en Alemania. Los amplificadores DSP desarrollados y fabricados por Fohhn ofrecen una alta densidad de potencia y un excelente sonido. Los amplificadores están diseñados para sistemas de sonido móviles e instalaciones fijas. Ofrecen todas las características esenciales y una conectividad casi ilimitada en términos de entradas de audio. Ya sea AES/EBU, Dante o analógico, ofrecen la máxima flexibilidad gracias a los módulos de conexión intercambiables. Los correspondientes preajustes de los altavoces garantizan un rendimiento y una fiabilidad óptimos.

## Main features

- Potencia de salida: 2 × 2000 W / 4 ohmios / 100 V / 70 V
- Puede manejarse y controlarse a distancia a través de Fohhn Net
- Amplio DSP, controlable en tiempo real con el Fohhn Audio Soft
- Plugin Q-SYS disponible
- Mantiene la potencia máxima durante varios segundos
- Ventilador de temperatura controlada y bajo nivel de ruido
- Auto Power Save para las necesidades mínimas de energía de reserva
- Tamaño de la instalación: 2 U / 19"
- Peso ligero, sólo 9,6 kg



Disponible con las siguientes opciones de color



Negro

Equipado con las siguientes tecnologías Fohhn



Fohhn DSP  
dentro de



100 V opcional



Auto Power  
Save



Power Sharing

Posibles interfaces de entrada para este producto

Analog

AES/EBU

 Dante™

# Datos técnicos

|                        |                                                                                                                                                                             |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Physical features      |                                                                                                                                                                             |
| dimensions (w × h × d) | 2 U / 19", 485 × 89 × 425 mm                                                                                                                                                |
| weight                 | 9.6 kg                                                                                                                                                                      |
| Electronic features    |                                                                                                                                                                             |
| amplifier technology   | Class D                                                                                                                                                                     |
| amplifier outputs      | 2                                                                                                                                                                           |
| DSP routing (matrix)   | 4 × 2                                                                                                                                                                       |
| frequency response     | 20 Hz – 20 kHz                                                                                                                                                              |
| signal/noise ratio     | >100 dB/A                                                                                                                                                                   |
| THD+N                  | 0.08 % (1 kHz, 8 ohms, 3 dB below clipping)                                                                                                                                 |
| dynamic range          | >120 dB                                                                                                                                                                     |
| password protection    | yes                                                                                                                                                                         |
| auto power save        | adjustable from 1 s to 12 h, or never active                                                                                                                                |
| 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)                                                                                          |
| power consumption      | Maximum (RMS) 1200 W, idle state 50 W, auto power save 10 W, standby 5 W, power on/off switch / remote power off 2 W                                                        |
| heat dissipation       | Maximal 200 W, 680 BTU/h, 172 kcal/h                                                                                                                                        |
| temperature range      | 0 – 40 °C                                                                                                                                                                   |
| cooling                | temperature-controlled fan                                                                                                                                                  |
| output power           | 2 × 2000 W / 4 ohms / 100 V / 70 V, 2 × 1000 W / 8 ohms (1 kHz, THD+N                                                                                                       |
| minimum impedance      | 4 ohms                                                                                                                                                                      |
| input channels         | 4                                                                                                                                                                           |

| Controller                   |                                                                                                |
|------------------------------|------------------------------------------------------------------------------------------------|
| digital signal processors    | 2                                                                                              |
| 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                           | 6 × 10 fully parametric filters, gain +/-12 dB, frequency 10 Hz – 20 kHz, Q 0.1 – 100          |
| selective 3-band limiting    | bass / mid / high                                                                              |
| limiter / compressor         | 6                                                                                              |
| noise gate                   | 6                                                                                              |
| delay                        | 2 × 0 – 350 ms (0 – 120 m) outputs, 4 × 0 – 88 ms (0 – 30 m) inputs                            |
| X-over                       | 6 × Linkwitz-Riley 4th order (24 dB/octave), high pass 10 Hz – 20 kHz, low pass 10 Hz – 20 kHz |
| user presets                 | 100                                                                                            |
| speaker presets              | 100                                                                                            |
| 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 Net over RS-485, Fohhn Audio Soft                                  |
| remote monitoring     | temperature, protect, signals, power supply, Fohhn Net, Fohhn Audio Soft |
| fault message contact | 1 × Relais, 2 × UM, 3-pin Phoenix                                        |
| switching contact     | load preset, standby on/off                                              |

#### Display (front)

|                    |                                                                           |
|--------------------|---------------------------------------------------------------------------|
| receive / send LED | remote control, Fohhn-Net                                                 |
| ready LED          | blue = Power on, blue flashing = Sign                                     |
| protect LED        | red = Error / Protect / Standby                                           |
| input LED          | 4 × input signal LED, white = signal (> -50 dBFS), red = clip (> -3 dBFS) |
| output LED         | 2 × output signal LED, white = signal (> -50 dBFS)                        |

## Connections and controls

|                                                     |                     |
|-----------------------------------------------------|---------------------|
| controls                                            | Power on/off Switch |
| mains connection                                    | 1 × PowerCON        |
| fault contact (open/close)                          | 1 × Phoenix 3-pin   |
| switching contact 1 and 2                           | 1 × Phoenix 3-pin   |
| remote power in / out                               | 2 × Phoenix 2-pin   |
| power supply for extern<br>small devices 24 V / 5 W | 1 × Phoenix 2-pin   |
| 24 V / 5 W power LED                                | green = on          |
| USB Config                                          | 1 × USB-C socket    |

peso: peso neto sin equipamiento opcional

disipación de calor: ruido rosa, 6 dB de cresta, 1/4 Pmax

# Interfaz de entrada estándar (AES/EBU)



Standard input interface (AES/EBU)

|                |                                                        |
|----------------|--------------------------------------------------------|
| inputs         | 2 × Phoenix 3-pin AES/EBU, 1 × Phoenix 3-pin Fohhn-Net |
| outputs        | 2 × Phoenix 3-pin AES/EBU, 1 × Phoenix 3-pin Fohhn-Net |
| signal inputs  | AES/EBU 32 kHz – 96 kHz, 16/24 bit                     |
| signal outputs | AES/EBU link out from input                            |
| latency        | 0.0 ms                                                 |

# Interfaz de entrada AES/EBU XLR



Input interface AES/EBU XLR

|                |                                         |
|----------------|-----------------------------------------|
| inputs         | 2 × XLR AES/EBU, 1 × etherCON Fohhn-Net |
| outputs        | 2 × XLR AES/EBU, 1 x etherCON Fohhn-Net |
| signal inputs  | AES/EBU 32 kHz – 96 kHz, 16/24 bit      |
| signal outputs | AES/EBU link out from input             |
| latency        | 0.0 ms                                  |

# Interfaz de entrada analógica XLR



| Input interface analog XLR |                                          |
|----------------------------|------------------------------------------|
| inputs                     | 4 × XLR analogue, 1 × etherCON Fohhn-Net |
| outputs                    | 4 × XLR analogue, 1 × etherCON Fohhn-Net |
| signal inputs              | analog, max. level +15 dBu               |
| signal outputs             | analog link out from input               |
| frequency response         | 20 Hz – 20 kHz                           |
| THD                        |                                          |
| S/N ratio                  | >110 dB/A                                |
| input impedance            | 10 k ohms                                |
| latency                    | 1.0 ms                                   |

# Interfaz de entrada Dante Ultimo (DUC)



| Input interface Dante Ultimo (DUC) |                                                   |
|------------------------------------|---------------------------------------------------|
| integration in media control       | UDP text protocol                                 |
| support for AES67                  | Yes                                               |
| latency                            | Dante +0.6 ms                                     |
| inputs                             | 1 × RJ-45 100BASE-T Ethernet, Dante and Fohhn-Net |
| audio input channels               | 4                                                 |
| audio link                         | No                                                |
| redundancy                         | No                                                |

# Opción de salida Speakon

## Output option Speakon

|         |             |
|---------|-------------|
| outputs | 2 × Speakon |
|---------|-------------|



# Bloques de terminales de opción de salida

## Output option terminal blocks

|                         |                                                           |
|-------------------------|-----------------------------------------------------------|
| outputs                 | 1 × Phoenix 4-pin                                         |
| conductor cross-section | max. 6 mm <sup>2</sup> flexible, 10 mm <sup>2</sup> rigid |



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