



Fohhn
colors of sound

Datasheet

Linea Focus DLI-430 (fixed installation)



Analog

AES/EBU

AIREA®

Dante™

Linea Focus DLI-430 (fixed installation)

The DLI-430 is an electronically controllable line source speaker from the award-winning Focus series. The elegant high-performance speakers are the very first choice for professional voice and music applications. Thanks to the Fohhn Beam Steering Technology, they can be integrated almost invisibly and offer the best results in complex acoustic environments.

- 32 × 4" high performance driver (frequency response: 60 Hz – 17 kHz)
- Built-in 32-channel digital amplifier, 32 DSP channels
- SPL max.: 136 dB
- Input interface optionally Analogue, AES/EBU + Fohhn Airea, Dante Ultimo with Fohhn Net Control (DUC) or Dante Brooklyn with Fibre (DBF)
- Convenient real-time control of vertical dispersion with Fohhn Audio Soft
- Vertical beam width: 0° to 90°, sound inclination angle: -40° to +40° (adjusted in 0.1° increments)
- Acoustic centre displaceable over entire line length
- Fohhn Two Beam Technology (two independent dispersion beams)
- Fohhn Side Lobe Free Technology (suppression of side lobes)
- Available in RAL, NCS, Pantone and with Fohhn Texture Design
- Integration in evacuation systems according to DIN EN 60849 / VDE 0828
- Integration in media controls such as Crestron, AMX, Extron and more
- Q-SYS Plugin available
- New: Flexible assembly thanks to the T-slot on the rear



Available with the following color options



Equipped with the following Fohhn technologies



Fohhn Texture Design



Fohhn Beam Steering Technology



Fohhn Source Division Waveguide



Fohhn Airea



Fohhn DSP inside



Special colors optional



Auto Power Save

Possible input interfaces for this product

Analog

AES/EBU

AIREA®

 **Dante™**

Technical data

Electroacoustic features

| | |
|--|--|
| acoustic design | electronically steerable line source speaker |
| components | 32 × 4" impregnated (fully neodymium) |
| maximum SPL (1 m) | 136 dB |
| operational mode | active, 32 × DSP amplifiers, Class-D |
| frequency range | 60 Hz – 17 kHz |
| nominal dispersion, horizontal | 110° |
| vertical beam width, digitally controlled | 0° to +90° in 0.1° increments |
| vertical inclination angle, digitally controlled | -40° to +40° in 0.1° increments |
| acoustic centre | both beams moveable between 0 – 100 % (from speaker bottom to top) |

Physical features

| | |
|------------------------|--|
| enclosure | aluminum |
| dimensions (w × h × d) | 133 × 4316 × 128 mm |
| weight | approx. 29.3 kg |
| standard colors | black or white powder coated |
| front design | front grille in housing colour |
| protection grille | steel grille, ball impact resistant, powder coated |
| mounting points | continuous T-slot at rear |

Optional features

| | |
|----------------|--|
| special colors | RAL Classic / NCS / Pantone on request, Fohhn Texture Design |
|----------------|--|

CAAD simulation data

| | |
|-----------------|----------------------|
| simulation data | EASE, Fohhn Designer |
|-----------------|----------------------|

Electronic features

| | |
|-------------------------------|--|
| amplifier type | Pure Path Digital PWM |
| support for AES67 | only with Dante versions |
| DSP channels, Fohhn Audio DSP | 32 |
| amplifier power | 32 × 100 W |
| frequency response | 20 Hz – 20 kHz |
| gain | 25 dB |
| input sensitivity | 0 dBFS with AES or Dante versions; 1.4 V with Analog |
| signal/noise ratio | >105 dB/A |
| tilt sensor | yes |
| password protection | yes |
| auto power save | adjustable from 1 s to 12 h, or permanently 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) |
| power consumption | Standby 5 W, max. 800 W |
| power factor (PFC) | > 90 % |
| low power | Green Power Standby Mode |
| heat dissipation | 280 W, 955 BTU/h, 240 kcal/h (Pink Noise, 6 dB crest, 1/4 Pmax) |
| operating temperature | 0 – 40 °C |
| cooling | temperature-controlled fan |
| weight (electronics) | approx. 4 kg |

Controller

| | |
|------------------------------|---|
| digital signal processors | 2 |
| independent limiters | 6 |
| FIR filter | yes |
| gain | -80 dB – +12 dB |
| volume | -80 dB – +12 dB |
| EQ input | 10 fully parametric filters, Gain +/-12 dB, Frequency 10 Hz – 20 kHz, Q 0.1 – 100 |
| EQ output | 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 | 2 × Input, 1 × Output |
| noise gate | 2 × Input, 1 × Output |
| X-over | Linkwitz–Riley 4th order, 24 dB/octave, high pass 10 Hz – 20 kHz, low pass 10 Hz – 20 kHz, 2 × input, 1 × output in each case |
| delay input | 0.01 – 350 ms or 3.4 mm – 120 m each |
| delay output | 0.01 – 650 ms or 3.4 mm – 220 m each |
| user presets | 100 |
| simulation beam | Fohhn Net, Fohhn Audio Soft |
| system latency | 1.8 ms with AES, 2.4 ms with Analog, Dante +1.8 ms with Dante versions |
| band-specific time constants | yes |
| filter technology | 80-bit double precision |
| AD (with Analog input) | 24 bit / 96 kHz |

Inputs and outputs

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|--------------------------|--|
| audio inputs | optionally 1 × AES/EBU + 1 × Airea, 2 × Analog (transformer balanced) or Dante |
| redundancy | only with Dante DBF version (Dante Primary & Secondary) |
| audio input channels DSP | 2 |
| audio link | only with Analog version (2) |

Remote control and remote monitoring

| | |
|-----------------------|---|
| remote control | Fohhn Audio Soft, Fohhn Net |
| remote monitoring | temperature, protect, signals, power supply, Fohhn Net, Fohhn Audio Soft, tilt sensor, pilot tone |
| pilot tone monitoring | activatable, detectable in Master (on both inputs) |
| fault message contact | only with AES or Analog version (1 × relay 2 × alternate, 3-pin Phoenix) |
| switching contact | only with AES or Analog version (load preset, standby on/off) |

Connections

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|-----------------------------|---|
| mains connection (internal) | 1 × WAGO 2-pin, grounding screwed |
| signal inputs | AES: Phoenix 3-pin + Phoenix 3-pin Fohhn Net + RJ-45 Airec, Analog: 2 × Phoenix 3-pin + Phoenix 3-pin Fohhn Net, Dante (DUC): RJ-45 100BASE-TX Ethernet (Dante + Fohhn Net), Dante (DBF): 2 × RJ-45 100BASE-T Ethernet + 2 × SFP port (Dante + Fohhn Net) |
| signal link | only with AES (1 × Phoenix 3-pin Fohhn Net) or Analog version (2 × Phoenix 3-pol for audio, 1 × Phoenix 3-pin Fohhn Net) |
| fault message contact | only with AES or Analog version (1 × Phoenix 3-pin, 1 × Phoenix 3-pin link) |
| switching contact | only with AES or Analog version (1 × Phoenix 3-pin) |

Display

| | |
|--------------------------|--|
| power on / off (standby) | only with AES or Analog version (green = on, red = standby, red flashing = fault, blue = sign) |
| network control | only with AES or Analog version (receive/send remote control LED) |

power rating (peak); maximum SPL: peak, 20 ms with bandpass filtered pink noise signal according to IEC 60268-2 at one octave above the lower limit of the frequency range, with speaker preset

frequency range: -10 dB under anechoic halfspace-conditions with speaker preset

weight: net weight without optional equipment

heat dissipation: pink noise, 6 dB crest, 1/4 P_{max}

nominal dispersion: -6 dB compared to the main dispersion axis, averaged 1 – 4 kHz

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