

Linea Focus

DLI-430 (mobile)

Active line source system with beam steering for mobile applications, 32 × 4", 136 dB SPL max., approx. 130 × 4316 × 120 mm



Analog

AES/EBU

AIREA

Dante

Linea Focus DLI-430 (mobile)

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.

Main features

- 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 interfaces: optionally AES/EBU + Fohhn Airea, Analog or Dante
- 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.
- New: Flexible assembly thanks to the T-slot on the rear



Available with the following color options



Black



White

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



Weatherproof execution



Auto Power Save

Possible input interfaces for this product

Analog

AES/EBU

AIREA[®]

Dante[™]

Technical data

AES/EBU and Airea

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

Optional features

| | |
|------------------|--|
| optional colours | 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 |
| DSP channels, Fohhn Audio DSP | 32 |
| amplifier power | 32 × 100 W |
| frequency response | 20 Hz – 20 kHz |
| gain | 25 dB |
| input sensitivity | 0 dBFS |
| 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. 400 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) |
| temperature range | 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 x input, 1 x 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 | 1.80 ms |
| band-specific time constants | yes |
| filter technology | 80-bit double precision |

Inputs and outputs

| | |
|--------------------------|----------------------------------|
| audio inputs | 1 × AES/EBU or 1 × AIREA powered |
| audio input channels DSP | 2 |
| audio link | no |
| redundancy | no |

Remote control and remote monitoring

| | |
|-----------------------|---|
| remote control | Fohhn Net over RS-485, Fohhn Audio Soft |
| remote monitoring | temperature, protect, power supply, Fohhn Net, Fohhn Audio Soft, tilt Sensor, pilot tone, AES/EBU signals |
| pilot tone monitoring | activatable, detectable in Master (on both inputs) |
| fault message contact | 1 × relay 2 × alternate, 3-pin Phoenix |
| switching contact | Load preset, Standby On/Off |

Connections

| | |
|-----------------------------|--|
| signal inputs | 1 × Phoenix 3-pin AES/EBU, 1 × Phoenix 3-pin Fohhn-Net, or 1 × RJ-45 AIREA |
| switching contact | 1 × Phoenix 3-pin |
| fault message contact | 1 × Phoenix 3-pin, 1 × Phoenix 3-pin link |
| mains connection (internal) | 1 × WAGO 2-pin, grounding screwed |
| signal link | 1 × Phoenix 3-pin, Fohhn-Net |

Display

| | |
|--------------------------|--|
| power on / off (standby) | green = on, red = standby, red flashing = fault, blue = sign |
| network control | 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

frequency range: -10 dB under anechoic halfspace-conditions

weight: net weight without optional equipment

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

nominal dispersion, beam width: -6 dB compared to the main dispersion axis

Technical data

analog

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

Optional features

| | |
|------------------|--|
| optional colours | RAL Classic / NCS / Pantone on request, Fohhn Texture Design |
|------------------|--|

CAAD simulation data

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| simulation data | EASE, Fohhn Designer |
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Electronic features

| | |
|-------------------------------|--|
| amplifier type | Pure Path Digital PWM |
| DSP channels, Fohhn Audio DSP | 32 |
| amplifier power | 32 × 100 W |
| frequency response | 20 Hz – 20 kHz |
| gain | 25 dB |
| input sensitivity | 1.4 V |
| 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. 400 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) |
| temperature range | 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 x input, 1 x 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 | 2.40 ms |
| band-specific time constants | yes |
| filter technology | 80-bit double precision |

Inputs and outputs

| | |
|--------------------------|------------------------------------|
| audio inputs | 2 × analogue, transformer balanced |
| audio input channels DSP | 2 |
| audio link | 2 |
| redundancy | no |

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, tilt Sensor, pilot tone |
| pilot tone monitoring | activatable, detectable in Master (on both inputs) |
| fault message contact | 1 × relay 2 × alternate, 3-pin Phoenix |
| switching contact | Load preset, Standby On/Off |

Connections

| | |
|-----------------------------|---|
| signal inputs | 2 × Phoenix 3-pin analogue, 1 × Phoenix 3-pin Fohhn-Net |
| switching contact | 1 × Phoenix 3-pin |
| fault message contact | 1 × Phoenix 3-pin, 1 × Phoenix 3-pin link |
| mains connection (internal) | 1 × WAGO 2-pin, grounding screwed |
| signal link | 2 × Phoenix 3-pin, 1 × Phoenix 3-pin Fohhn-Net |

Display

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|--------------------------|--|
| power on / off (standby) | green = on, red = standby, red flashing = fault, blue = sign |
| network control | 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

frequency range: -10 dB under anechoic halfspace-conditions

weight: net weight without optional equipment

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

nominal dispersion, beam width: -6 dB compared to the main dispersion axis

Technical data

Dante

Electroacoustic features

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| simulation data | EASE, Fohhn Designer |
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Electronic features

| | |
|-------------------------------|--|
| amplifier type | Pure Path Digital PWM |
| Support for AES67 | Yes |
| DSP channels, Fohhn Audio DSP | 32 |
| amplifier power | 32 × 100 W |
| frequency response | 20 Hz – 20 kHz |
| gain | 25 dB |
| input sensitivity | 0 dBFS |
| 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) |
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| 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 | Dante + 1.80 ms |
| band-specific time constants | yes |
| filter technology | 80-bit double precision |

Inputs and outputs

| | |
|--------------------------|-----------------------------------|
| audio inputs | Dante Primary und Dante Secondary |
| audio input channels DSP | 2 |
| audio link | no |
| redundancy | yes |

Remote control and remote monitoring

| | |
|------------------------------|---|
| remote control | Fohhn Audio Soft, Fohhn Net over IP |
| 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) |
| Integration in media control | UDP and TCP text protocol |

Connections

| | |
|-----------------------------|--|
| signal inputs | 2 × RJ-45 1000BASE-T Ethernet, Dante and Fohhn-Net |
| mains connection (internal) | 1 × WAGO 2-pin, grounding screwed |

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

frequency range: -10 dB under anechoic halfspace-conditions

weight: net weight without optional equipment

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

nominal dispersion, beam width: -6 dB compared to the main dispersion axis

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