

# Linea Fokus

## DLI-230 (fast installation)

Aktivt line source-system med strålestyring til faste installationer, 16 × 4", 130 dB SPL max., 133 × 2308 × 128 mm



Analog

AES/EBU

AIREA®

Dante™

# Linea Focus DLI-230 (fast installation)

DLI-230 er en elektronisk styrbar linjehøjttaler fra den prisbelønnede Focus-serie. De elegante højttalere med høj ydeevne er det allerførste valg til professionelle stemme- og musikapplikationer. Takket være Fohhn Beam Steering Technology kan de integreres næsten usynligt og giver de bedste resultater i komplekse akustiske miljøer.

## Main features

- 16 × 4" højtydende driver (frekvensgang: 60 Hz - 17 kHz)
- Indbygget 16-kanals digital effektforstærker, 16 DSP-kanaler
- SPL max.: 130 dB
- Indgangsinterface valgfrit Analogt, AES/EBU + Fohhn Airea, Dante Ultimo med Fohhn Net Control (DUC) eller Dante Brooklyn med fiber (DBF)
- Praktisk realtidskontrol af vertikal spredning med Fohhn Audio Soft
- Spredningsgrad: 0° til 90°, hældningsgrad: -40° til +40° (justeret i intervaller på 0,1°)
- Akustisk center kan flyttes over hele linjelængden
- Fohhn Two Beam-teknologi (to uafhængige spredningsstråler)
- Fohhn Side Lobe Free-teknologi (undertrykkelse af side lobe)
- Fås i RAL, NCS, Pantone og med Fohhn Texture Design
- Integration i evakueringsystemer i henhold til DIN EN 60849 / VDE 0828
- Integration i mediekontroller som Crestron, AMX, Extron m.m.
- Q-SYS Plugin tilgængelig
- Nyhed: Fleksibel montering takket være T-slottet på bagsiden

Fås med følgende farvevarianter



Sort



Hvid

Udstyret med følgende Fohhn-teknologier



Fohhn Texture  
Design



Fohhn Beam  
Steering  
Technology



Fohhn Source  
Division  
Waveguide



Fohhn Airea



Fohhn DSP inde  
på



Særlige farver  
valgfrit



Auto Power  
Save

Mulige indgangsinterfaces for dette produkt

**Analog**

AES/EBU

**AIREA®**

**@Dante™**

# Tekniske data

|                                                  |                                                                    |
|--------------------------------------------------|--------------------------------------------------------------------|
| Electroacoustic features                         |                                                                    |
| acoustic design                                  | electronically steerable line source speaker                       |
| components                                       | 16 × 4" impregnated (fully neodymium)                              |
| maximum SPL (1 m)                                | 130 dB                                                             |
| frequency range                                  | 60 Hz – 17 kHz                                                     |
| operational mode                                 | active, 16 × DSP amplifiers, Class-D                               |
| 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 × 2308 × 128 mm                                                |
| weight                                           | approx. 15.1 kg                                                    |
| standard colours                                 | 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                                |                                                                    |
| 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                                                      |
| support for AES67             | only with Dante versions                                                   |
| DSP channels, Fohhn Audio DSP | 16                                                                         |
| amplifier power               | 16 × 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. 400 W                                                    |
| power factor (PFC)            | > 90 %                                                                     |
| low power                     | Green Power Standby Mode                                                   |
| heat dissipation              | 140 W, 478 BTU/h, 120 kcal/h (Pink Noise, 6 dB crest, 1/4 Pmax)            |
| temperature range             | 0 – 40 °C                                                                  |
| cooling                       | temperature-controlled fan                                                 |
| weight (electronics)          | approx. 3 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       |                                                                                |
|--------------------------|--------------------------------------------------------------------------------|
| 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

|                             |                                                                                                                                                                                                                                                            |
|-----------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| mains connection (internal) | 1 × WAGO 2-pin, grounding screwed                                                                                                                                                                                                                          |
| signal inputs               | AES: Phoenix 3-pin + Phoenix 3-pin Fohhn Net + RJ-45 Airea, 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 1000BASE-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)                              |

nominel effekt (peak); maksimal SPL: peak, 20 ms med båndpasfilteret lyserødt støjsignal i henhold til IEC 60268-2 ved en oktav over frekvensområdets nedre grænse, med højttalerforindstilling

frekvensområde: -10 dB under akustiske halvrumsforhold med højttalerforindstilling

vægt: nettovægt uden ekstraudstyr

varmeafgivelse: lyserød støj, 6 dB crest, 1/4 Pmax

nominel spredning: -6 dB i forhold til hovedspredningsaksen, gennemsnit 1 - 4 kHz

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