# ALX 8 DANTE®

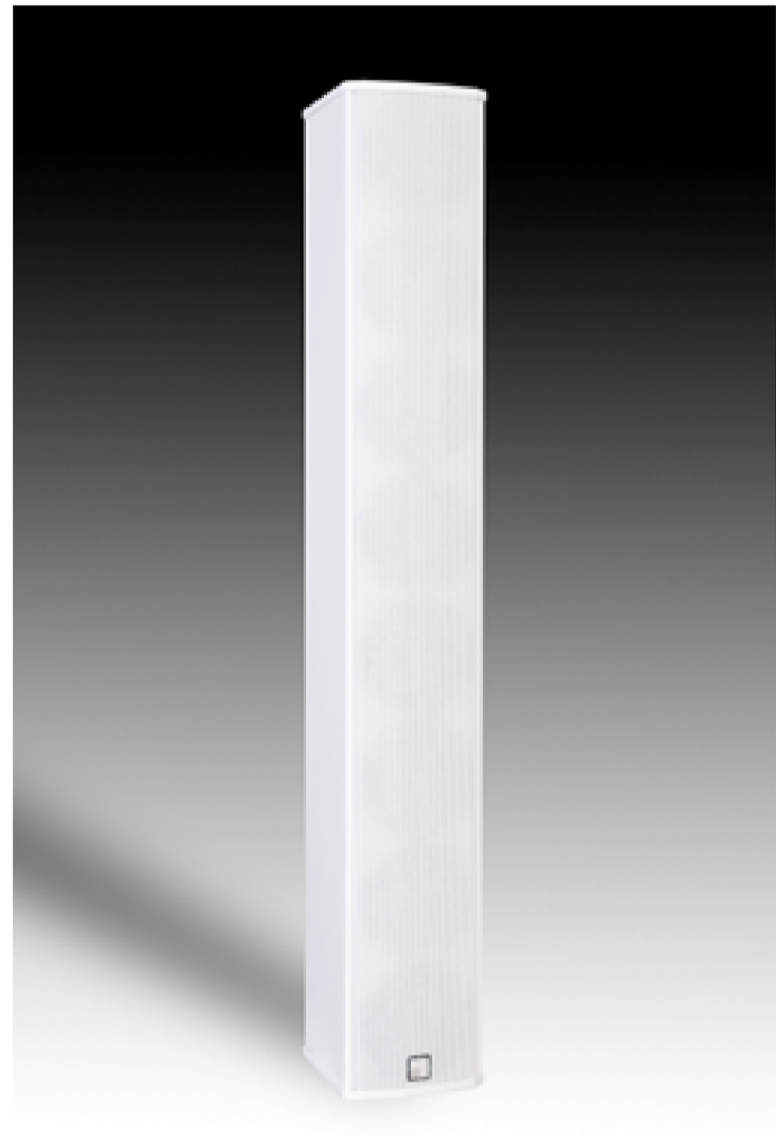## Digitally controllable column speaker

## Main features

- DANTE inputs and outputs
- Analogue inputs
- AES/EBU inputs
- 4" broadband loudspeaker with fibreglass membrane
- Multibeam technology
- Adjustable acoustic centre for each beam
- IP network technology
- Surveillance of all functions
- 24 internal presets
- External control via UDP commands
- Real-time control via PAN-C Windows software
- Aluminium enclosure with sturdy front grille
- all RAL colours available
- Made in Germany
- weatherproof version available

## System description

ALX8 is a digitally steerable and active column speaker

The AIMLINE ALX series includes 7 different models/lengths.
Depending on the required range, arrays can be set up in modular design from 4 to 48 speakers. The ALX8 model can be cascaded up to 5 times to

**ALX16 · ALX24 · ALX32 · ALX40 · ALX48**

Each individual loudspeaker chassis has its own DSP and amplifier channel. This design ensures maximum beam steering performance and, at the same time, high operational reliability.

The PAN-C control software recognises the number of cascaded ALX8s completely configuration-free via auto-addressing and automatically calculates the algorithms of the longer arrays. Due to the high number of loudspeaker chassis, the dispersion behaviour in the vertical and horizontal levels can be controlled very well.

In the vertical layer, the opening angle can be bundled/opened in 1° steps. The bundled sound energy is very effective for sound reinforcements over long distances. The directional angle can be tilted/raised in the range from -45° to +45°.

All ALX models have the Multi Beam (Split Beam) function. This allows two different audience areas to be covered with two independently controllable beams.

The acoustic centre in all ALX models can be freely shifted 100% downwards/upwards. This allows a much better adaptation to the acoustic requirements.

All ALX models have two analogue audio inputs each, as well as two DANTE inputs and two AES/EBU inputs.

The integrated DSP processor offers delay, X-over, limiter, 10-band fully parametric EQ with IIR filters, FIR filter import. All DSP functions can be stored internally in 24 presets and called up externally via Media control systems (UDP commands). Two GPIO interfaces allow flexible integration into alarm systems and media control systems.

The control and preset changing is done in real time on an IP-based network using the easy-to-use PAN-C Windows software. Full surveillance like temperature, impedance, or current status of the amplifiers of each unit is possible via the network.

Thanks to a slim enclosure design, the ALX loudspeakers can be integrated visually unobtrusively into architecturally demanding environments. With excellent workmanship and Kevlar-coated loudspeaker chassis, all ALX models are suitable for outdoor use and meet the IP65 protection rating according to DIN EN 60529.

# AIMLINE

## ALX 8 DANTE®

### Digitally controllable column speaker

## technical data:

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|---|---|
| Configuration / Design: | digitally steerable column speaker, Fullrange-System |
| Components: | 8 x 4" Neodym-chassis with fibreglass membrane (weatherproof) |
| Amplifiers: | Digital PWM, 8 x 65W |
| DSP: | 8 channel DSP |
| Audio Input: | 2 channel DANTE® RJ45 · analogue Line · AES/EBU Phoenix-Plugs |

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|---|---|
| Dispersion horizontal: | 120° (-6dB@1kHz-8kHz) |
| Dispersion vertical: | 5° to 40° digitally steerable |
| Tilt angle: | -45° to +45° digitally adjustable |
| Deepest controllable Frequency: | 400Hz |
| Multi Beam: | up to 2 Beams |
| Acoustical centre: | each Beam -/+ 100% movable |
| Frequency range: | 70Hz – 18 kHz |
| Typical throw: | 25 meters |
| Sound pressure: | 97dB @30m |

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| Delay: | up to 500ms (171,5 meters)for each Input |
| IIR Filter: | 10 Band full parametric EQ incl. IIR Filter for each Input |
| FIR Filter: | FIR Filter Import for each Input |
| Dynamic EQ: | for each Input |
| Presets: | 24 intern, recallable via GPIO and/or UDP commands |
| GPIO: | 2 |
| Software: | PAN-C (Windows) |
| Network: | IP based Network, freely configurable |
| System latency: | 1,8ms |
| External Control: | UDP commands |

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| Control-LED: | Front LED can be switched off, flashable for identifaction |
| Cooling: | Passive cooling over the entire length of the enclosure |
| Temperature range: | -5° bis 50°C |
| Power supply: | 90 – 264VAC  47 – 63Hz |
| Enclosure: | Aluminum, powder coated, optional IP65 wetterfest |
| Frontgrill: | powder coated steel, Ball-proof and opaque. |
| Weight: | 9,9kg |
| Dimensions: | H:812 x W:120 x D:160mm |
| Colour: | Standard RAL 9016 white- optional all RAL colours available |
| Simulation Datas: | EASE 4.0 available |