Evo-pbs

Modular DSP-controlled active line array with digitally adjustable vertical dispersion.

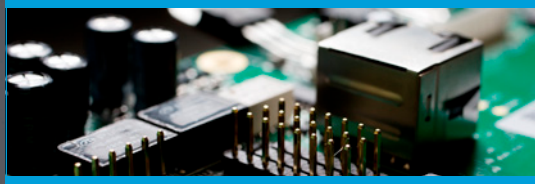
MAIN FEATURES

- Excellent audio quality and intelligibility, even in difficult acoustic environments
- German engineering
- Premium aesthetics
- Custom RAL colours available (optional)
- Simple integration with third party control systems

TWO-WAY DESIGN

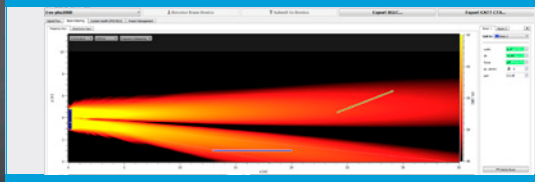
- Gives better fidelity on both speech and music
- Allows for more accurate vertical pattern control
- Modular construction allows columns of up to almost 10 m for truly full-range pattern control

STATE OF THE ART AMPLIFICATION AND DSP



- Recallable functionality, with up to 15 stored presets
- Class D for high SPL with optimal efficiency
- Calibrated limiting and 8 band parametric EQ is included
- Comprehensive remote monitoring and control for life critical applications (EN60849)
- Optional Dante board

SIMPLE YET EFFECTIVE PREDICTION AND CONTROL



- Up to 6 beams can be created from a single column
- Side lobe suppression (SLS) technology combined with adjustable focus distance offers fast and intuitive maximisation of direct to reverberant ratio
- Timesaving auto-aiming and auto-EQ functionality
- Data export to EASE or CATT-Acoustic

CVS

clearvoice systems

Evo-pbs is a self-powered, modular line array speaker with adjustable vertical dispersion characteristics. Up to 10 units can be combined into a single column for effective coverage up to 100 m. Individual modules are linked using the Evo-con connector module, enabling digital audio transmission between modules without the need for external cabling.

MODEL	Evo-pbs 1000	Evo-pbs 2000	Evo-pbs 3000	Evo-pbs 4000	Evo-pbs 5000
Configuration	8 x 4¼" Neodymium, 16 x 1.1" Tweeter	16 x 4¼" Neodymium, 32 x 1.1" Tweeter	24 x 4¼" Neodymium, 48 x 1.1" Tweeter	32 x 4¼" Neodymium, 64 x 1.1" Tweeter	40 x 4¼" Neodymium, 80 x 1.1" Tweeter
Horizontal Coverage	150° (< 3 kHz), 120° (> 3 kHz)				
Vertical Beamwidth (adustable in 0.1 ° steps)	14° – 90°	7° – 90°	5° – 90°	4° – 90°	3° – 90°
Verical Beam Orientation (per beam)	+/- 53°	+/- 56°	+/- 58°	+/- 58°	+/- 58°
Frequency Response (- 6 dB)	80 Hz – 20 kHz				
Max distance for 100 dB (A)	13 m	23 m	33 m	43 m	52 m
Amplifier Power	800 W	1600 W	2400 W	3200 W	4000 W
Dimensions (H x W x D) cm	93 x 15.6 x 17	186 x 15.6 x 17	279 x 15.6 x 17	372 x 15.6 x 17	465 x 15.6 x 17
Weight	12.5 kg	25 kg	37.5 kg	50 kg	67.5 kg

MODEL	Evo-pbs 6000	Evo-pbs 7000	Evo-pbs 8000	Evo-pbs 9000	Evo-pbs 10000
Configuration	48 x 4¼" Neodymium, 96 x 1,1" Tweeter	56 x 4¼" Neodymium, 112 x 1,1" Tweeter	64 x 4¼" Neodymium, 128 x 1,1" Tweeter	72 x 4¼" Neodymium, 144 x 1,1" Tweeter	80 x 4¼" Neodymium, 160 x 1,1" Tweeter
Horizontal Coverage	150° (< 3 kHz), 120° (> 3 kHz)				
Vertical Beamwidth (adustable in 0.1 degree steps)	3° – 90°	3° – 90°	3° – 90°	3° – 90°	3° – 90°
Verical Beam Orientation (per beam)	+/- 58°	+/- 58°	+/- 58°	+/- 58°	+/- 58°
Frequency Response (- 6 dB)	80 Hz – 20 kHz				
Max distance for 100 dB (A)	60 m	68 m	75 m	82 m	89 m
Amplifier Power	4800 W	5600 W	6400 W	7200 W	8000 W
Dimensions (H x W x D) cm	558 x 15.6 x 17	651 x 15.6 x 17	744 x 15.6 x 17	837 x 15.6 x 17	930 x 15.6 x 17
Weight	80 kg	92.5 kg	105 kg	117.5 kg	130 kg

ALL MODELS	
DSP	
FIR Flitering	8 x 512 Taps beam forming for power amplifier channels + 1024 Taps Master EQ
Equalisation	8 bands, fully parametric
Limiters	Integrated Peak and RMS Limiters with 1 ms look-ahead
Delay	Maximum 2 seconds
Latency	7 ms (1 ms limiter, 1 ms AD/DA, 5 ms beamforming FIR)
Presets	25
Side lobe suppression	Off, 10 dB or 20 dB, software selectable
Safety	
Monitoring	Optional impedance monitoring of speaker and temperature monitoring of power amplifiers
Pilot tone	Yes
Redundancy	Analog, AES and Dante™ (optional), priority selectable
Control	Ethernet or RS485
Fault reporting	Over Ethernet or RS485
Emergency operation	Automatic selection of user defined preset in case of failure
Connections	
Analog	Balanced Phoenix connector, max input + 18 dBu.
Digital	AES3 / AES3id
Dante (optional)	Dante Brooklyn or Ultimo with RJ45 connection
Control and Programming	Ethernet or RS485
Electrical and Mechanical	
Mains input voltage	110 V or 230 V internally selectable
Maximum Power Consumption	200 W per module
Standby Power Consumption	22 W per module

E & OE

CVS

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