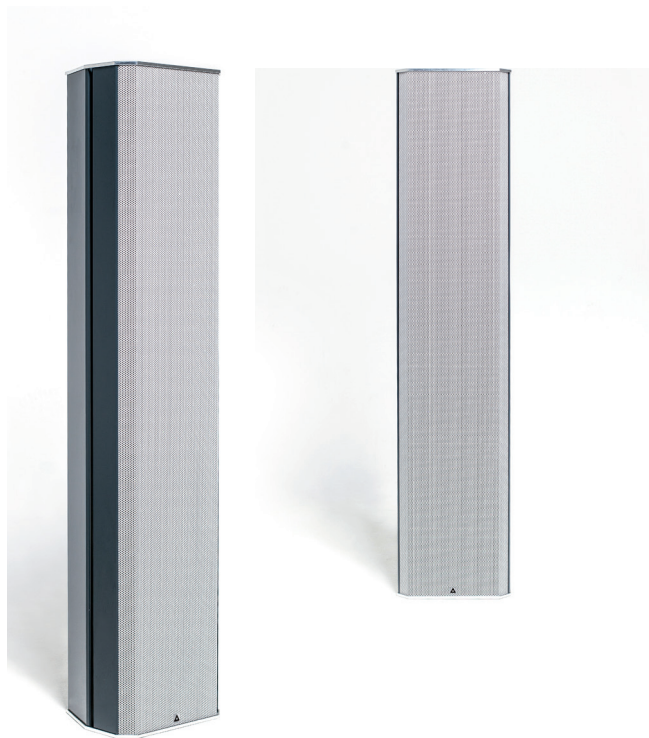


DATA SHEET

PAN BEAM PB 224 - ACTIVE DIGITAL STEERABLE COLUMN SPEAKER



The **Pan Beam 224** is a high-performance speaker, which was designed for sophisticated voice and music applications. The **PB 224** is designed to cover a range of 50 m with constant SPL. It is possible to create independent multiple beams, to achieve an optimal sound coverage on the listening area. Operated via a user friendly Windows Software, the connection to the computer is made through an RS 485 network. Over the digital signal processing the vertical and the inclination angle; the volume, sound and delay can be entered and controlled. **Pan beam PB 224** is equipped with six specially designed 6.5" speakers and 18 special 1" high-frequency drivers, DSP modules and 16 digital amplifiers with an output of up to 100 watt each. **Pan Beam Series is EN 54 READY.**

FEATURES:

High efficiency, integrated protection circuits, high speech intelligibility even in the most adverse acoustic environments. Sleek and unobtrusive design, remote monitoring, two audio inputs (transformer balanced)

INTEGRATED DSP CONTROL FOR:

- The vertical radiation (opening / angle)
- 5-band parametric equalizer
- Volume control
- Internal delay up to 370 ms
- Connection to media control possible
- Two independent line inputs with automatic priority switching
- Integration in voice evacuation system (EN 60849 / VDE 0828)

The **Pan Beam PB 224** can be cascaded up to a **PB 248**, to control the lower limit frequency, the sound pressure and to improve the coverage.

All **Pan Beam** speakers are designed, developed with high-quality materials and manufactured according to strict criteria by Pan Acoustics in Germany.

MADE IN GERMANY

ADDITIONAL OPTIONS

- Automatic volume control with ambient noise detection
- Extensive mounting accessories
- AES / EBU
- 100V audio input
- IP 54
- Dante interface
- 24V DC Input
- Colour option

APPLICATIONS

Churches, Mosque, Museum, Hotels, University, Live Sound, Train stations, Airports, Sports grounds, Parliament, Conference rooms, Auditorium, Shopping centre, A/V Installations

MADE IN GERMANY - All products are designed, developed and manufactured by Pan Acoustics in Germany.

Pan Acoustics reserves the right to modify products without prior notice.

www.pan-acoustics.de

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TECHNICAL DATA PAN BEAM PB 224

ACOUSTIC SPECIFICATION

Type:	2-Way-System with 6 x 6,5" / 18 x 1" Drivers
Frequency response:	85Hz - 19kHz (+3/-10dB)*
Dispersion horiz.:	150°
Vertical beam angle:	5° - 40°, digital steerable
Beams:	multiple beam technology
Acoustic focus adjustable, depending on the length	
Tilt:	-70° - +70°, digital steerable
Focus distance:	5 m up to 60 m
Typical distance:	50 m
SPL-limit (peak):	131 dB @ 1 m (cal.) 106 dB SPL @ 25 m
Dynamic range:	>105 dB

*measured in semi-anechoic room

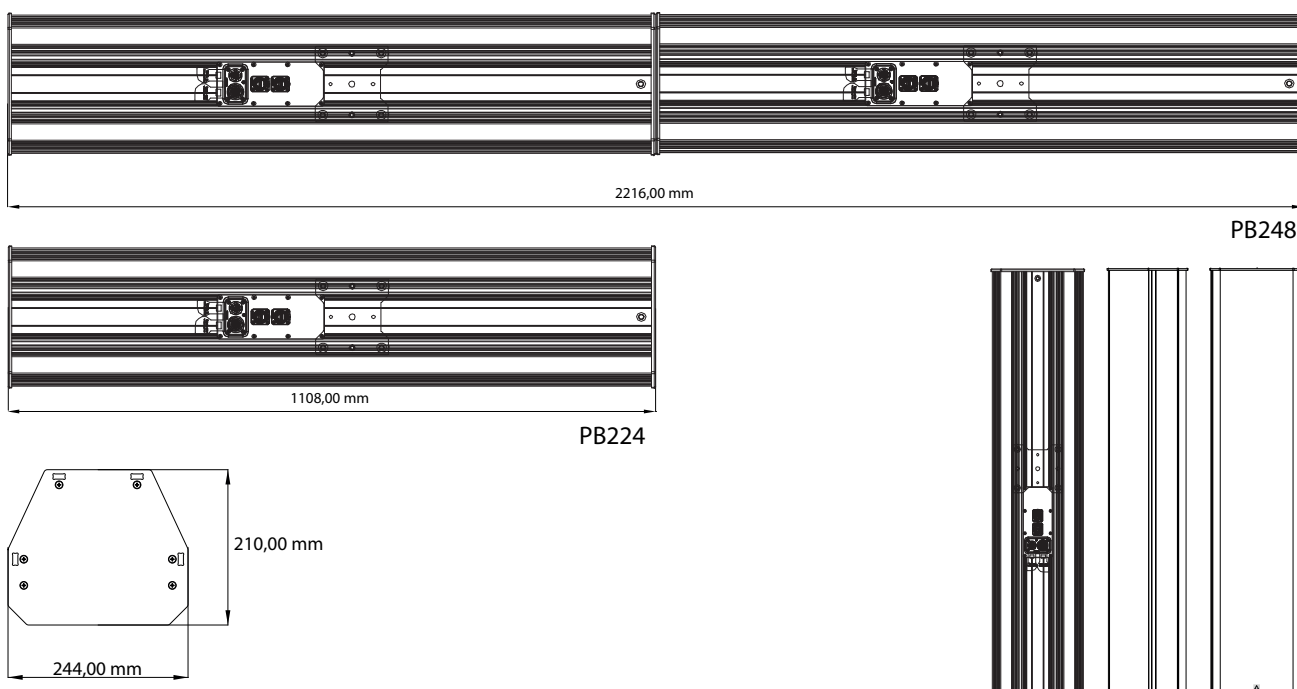
ELECTRONIC SPECIFICATION

Amplifier output / type:	up to 16 x 100 Watt (max) @ 4 Ohm / digital PWM
DSP power:	24 bit / 96 kHz sample rate
Pan Beam network I/O:	2 x RJ 45 (EtherCon)
Audio input via Pan Beam network:	Transformer balanced Line level +4 dBu
AC input operating range:	90 ~ 264 VAC, 47 ~ 63Hz
Nominal power consumption:	20 VA (normal), VA 800 (max)
Maximum ambient temperature:	0° - +40° C (optional -30°C - + 50°C)

GENERAL SPECIFICATION

Enclosure:	Aluminium profile
Grille:	Powder coated perforated panel sheet
Colour:	RAL 9005
Dimensions (HxWxD):	1108 x 244 x 210 mm
Weight:	29,5 kg (incl. electronic)

TECHNICAL DRAWING PAN BEAM PB 224, 248



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