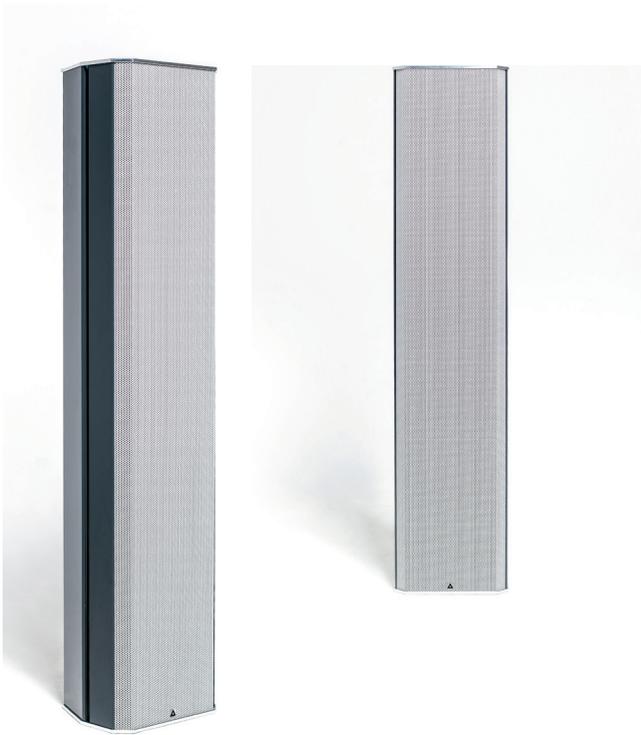


DATA SHEET

## 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

## TECHNICAL DATA PAN BEAM PB 224

### ACOUSTIC SPECIFICATION

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

\*measured in semi-anechoic room

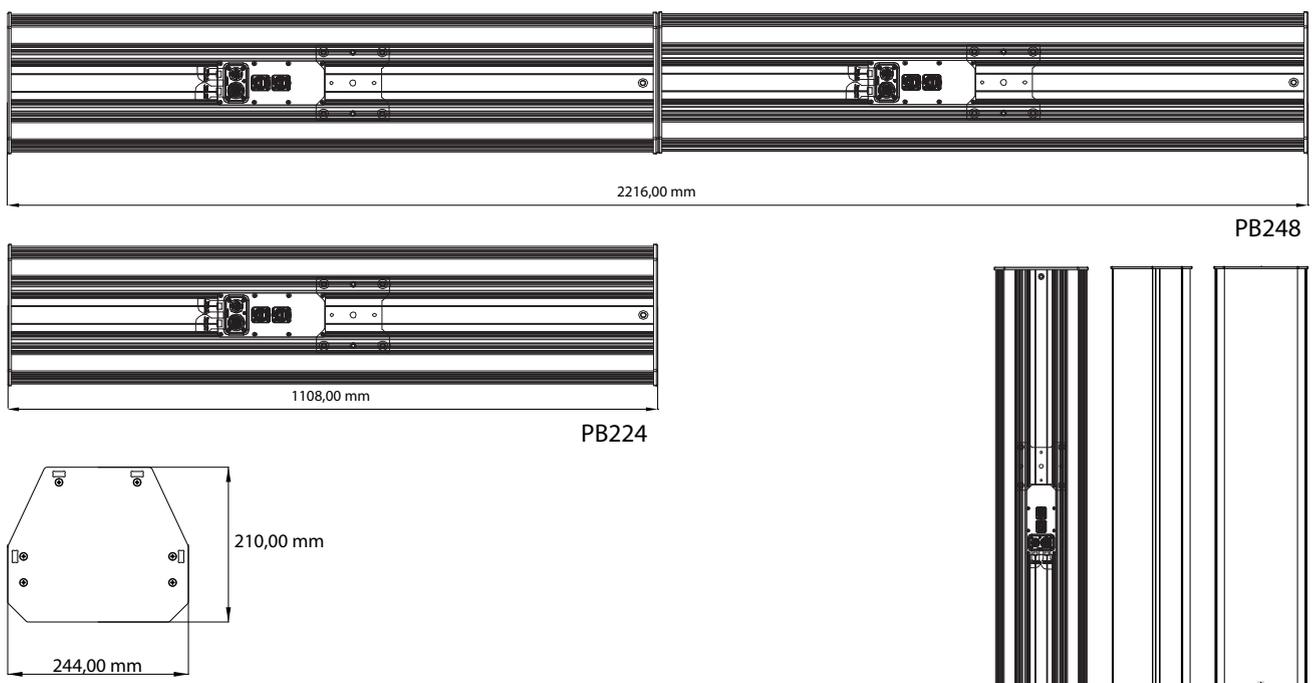
### ELECTRONIC SPECIFICATION

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

### GENERAL SPECIFICATION

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

## TECHNICAL DRAWING PAN BEAM PB 224, 248



**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](http://www.pan-acoustics.de)

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