

DATASHEET

## PAN BEAM PB 248 - ACTIVE DIGITAL STEERABLE COLUMN SPEAKER



The **Pan Beam 248** is a high-performance speaker, which was designed for sophisticated voice and music applications. The **PB 248** 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 248** is equipped with 12 specially designed 6.5" speakers and 36 special 1" high-frequency drivers, DSP modules and 16 digital amplifiers with an output of up to 100 Watts each.

### 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

For the **Pan Beam series**, there is a wide range of mounting accessories for fixed installations and mobile applications.

The **Pan Beam PB 248** is cascaded from two modules **PB 224**, 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

- automatically volume control with ambient noise detection
- extensive mounting accessories
- AES / EBU
- 100V Option
- IP 54
- RAL Colour Option  
(Standard color: Aluminum RAL 9006)

### APPLICATIONS

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

## TECHNICAL DATA PAN BEAM PB 248

### ACOUSTIC SPECIFICATION

<b>Type:</b>	2-Way-System with 12 x 6,5" / 36 x 1" Drivers
<b>Frequency response:</b>	85 Hz - 19 kHz (+3/-10 dB)*
<b>Dispersion Horiz.:</b>	150°
<b>vertical Beamangle:</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 75 m
<b>Typical Distance:</b>	50 m
<b>SPL-limit (peak):</b>	135 dB* @ 1m (cal.)   110 dB SPL @ 25 m
<b>Dynamic-Range:</b>	>92 dB

\*anechoic halfspace conditions

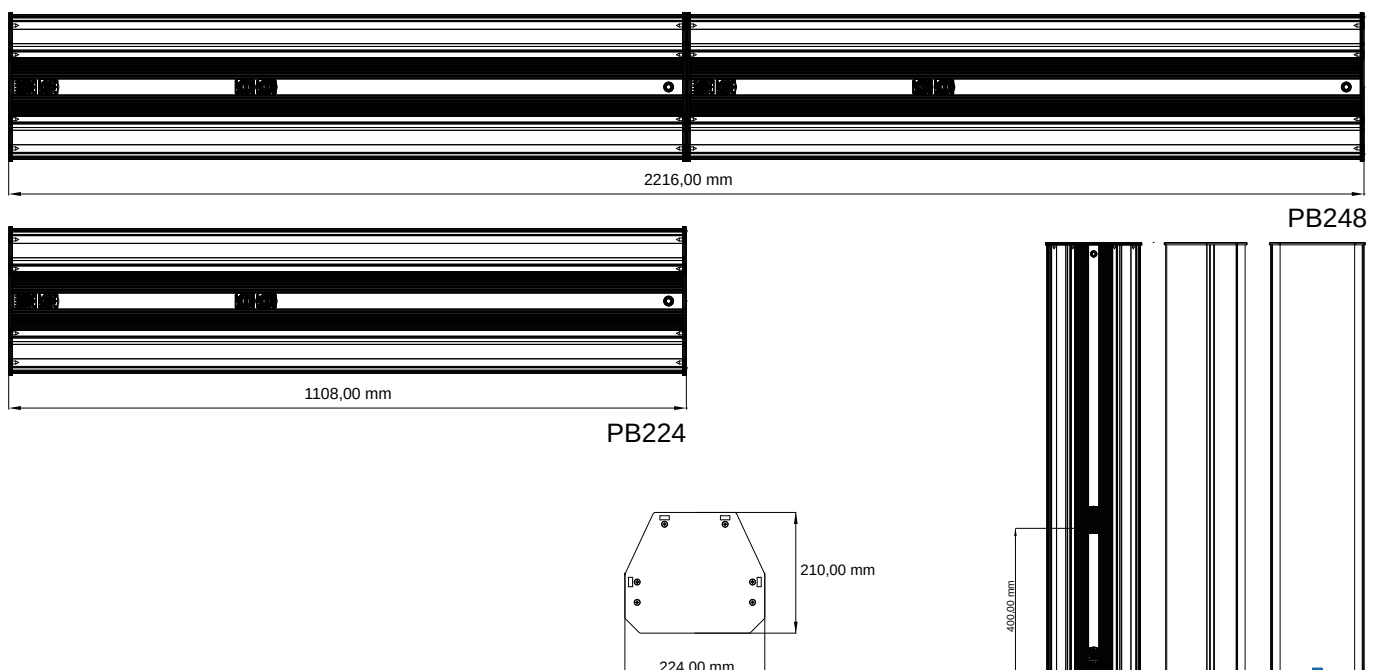
### ELECTRONIC SPECIFICATION

<b>Output Power:</b>	20 x 60 Watt (max), 12 x 100 Watt (max) @ 4 Ohm
<b>Type:</b>	Digital PWM
<b>Pan Beam-Netzwerk I/O:</b>	2 x RJ 45 (EtherCon)
<b>Audio-Input via Pan Beam-Netzwerk:</b>	2 x Transformer-balanced Line-Level +4dBu, Samplerate 96.000 Hz
<b>AC Input Operating Range:</b>	230 oder 110 Volt (+5/-10%), 50 Hz bis 60 Hz
<b>Nominal Power Consumption:</b>	40 VA (normal), 1600 VA (max)
<b>Maximum Ambient Temperature:</b>	0° - +40° C (optional -30°C - + 50°C)

### GENERAL SPECIFICATION

<b>Enclosure:</b>	Aluminium-Profilen, consisting of two PB 224 modules
<b>Grille:</b>	Powder coated perforated steel
<b>Colour:</b>	Aluminium RAL 9006
<b>Dimensions (HxDxW):</b>	2216 x 224 x 210 mm
<b>Weight:</b>	55 kg (incl. Electronic)

## TECHNICAL DRAWING PAN BEAM PB 224, 248



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

Pan Acoustics reserves the right to change product specification without notice.

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

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