

DATASHEET

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 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 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

- 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 224

ACOUSTIC SPECIFICATION

Type:	2-Way-System with 6 x 6,5" / 18 x 1" Drivers
Frequency response:	85 Hz - 19 kHz (+3/-10 dB)*
Dispersion Horiz.:	150°
vertical Beamangle:	5°- 40°, digital steerable
Beams:	multiple beam technology
Acoustic focus adjustable, depending on the length	
Tilt:	-70° - +70°, digital steerable
Focus Distance:	5 m bis 60 m
Typical Distance:	50 m
SPL-limit (peak):	131 dB* @ 1m (cal.) 106 dB SPL @ 25 m
Dynamic-Range:	>92 dB

*anechoic halfspace conditions

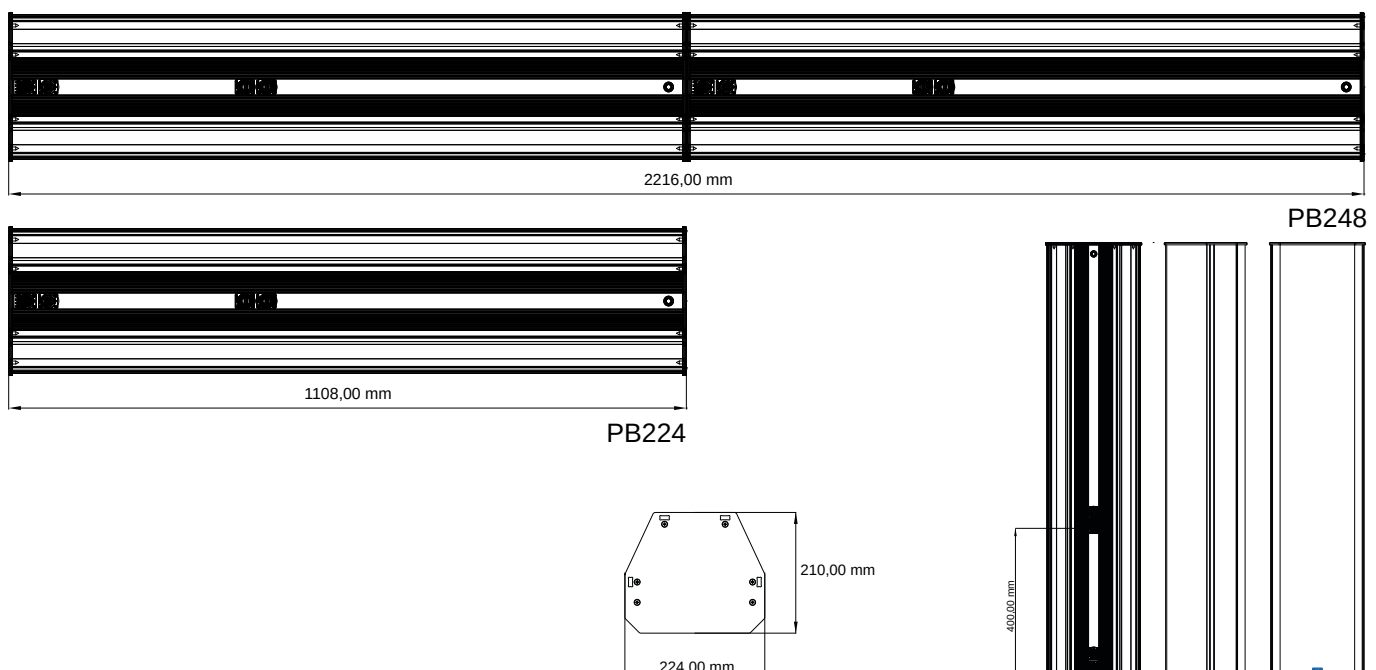
ELECTRONIC SPECIFICATION

Output Power:	10 x 60 Watt (max), 6 x 100 Watt (max) @ 4 Ohm
Type:	Digital PWM
Pan Beam-Netzwerk I/O:	2 x RJ 45 (EtherCon)
Audio-Input via Pan Beam-Netzwerk:	2 x Transformer-balanced Line-Level +4dBu, Samplerate 96.000 Hz
AC Input Operating Range:	230 oder 110 Volt (+5/-10%), 50 Hz bis 60 Hz
Nominal Power Consumption:	20 VA (normal), 800 VA (max)
Maximum Ambient Temperature:	0° - +40° C (optional -30°C - + 50°C)

GENERAL SPECIFICATION

Enclosure:	Aluminium-Profil
Grille:	Powder coated perforated steel
Colour:	Aluminium RAL 9006
Dimensions (HxDxW):	1108 x 224 x 210 mm
Weight:	27,5 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

Pan Acoustics GmbH | Lindener Str. 15 | D-38300 Wolfenbüttel | Germany | Tel.: +49 (0) 5331 900 95 70 | E-Mail: kontakt@pan-acoustics.de