

DATASHEET

## PAN BEAM PB 24 - ACTIVE DIGITAL STEERABLE COLUMN SPEAKER



The **Pan Beam PB 24** is a slim line speaker in an appealing design. The Pan Beam **PB 24** can generate four independent beams, to get an optimal sound coverage on the listening area. It is possible to modify the beam through various optimizers (max SPL, SPL + min side lobes, min side lobes). Operated via a user friendly Windows Software, the connection to the computer is made through a RS 485 network. Over the digital signal processing the vertical and the inclination angle, the volume, sound and delay can be entered and controlled. The **Pan Beam PB 24** is equipped with 24 specially-designed 3.5" chassis, DSP modules and 24 digital amplifiers offering maximum performance of 80 watts per channel. A single **Pan Beam PB 24** can cover a listening area of 70 meters, with constant speech intelligibility and sound pressure.

### 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 units can be cascaded from the Pan Beam PB 08 up to **PB 16/24/32/40**, 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 / 65
- 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 24

### ACOUSTIC SPECIFICATION

<b>Type:</b>	Fullrange-System with 24 x 3,5"-Driver
<b>Frequency response:</b>	70 Hz - 17 kHz (+3/-10 dB)*
<b>Dispersion Horiz.:</b>	130° (3 kHz), 70° (10 Hz)
<b>vertical Beamangle:</b>	3°- 40°, digital steerable
<b>Beams:</b>	4
<b>Acoustic focus adjustable, depending on the length</b>	
<b>Tilt:</b>	-70° - +70°, digital steerable
<b>Focus Distance:</b>	1 m up to 90 m
<b>Typical Distance:</b>	70 m
<b>SPL-limit (peak):</b>	132 dB SPL* @1m (cal.)   100 dB SPL @ 25 m
<b>Dynamic-Range:</b>	>92 dB

\*anechoic halfspace conditions

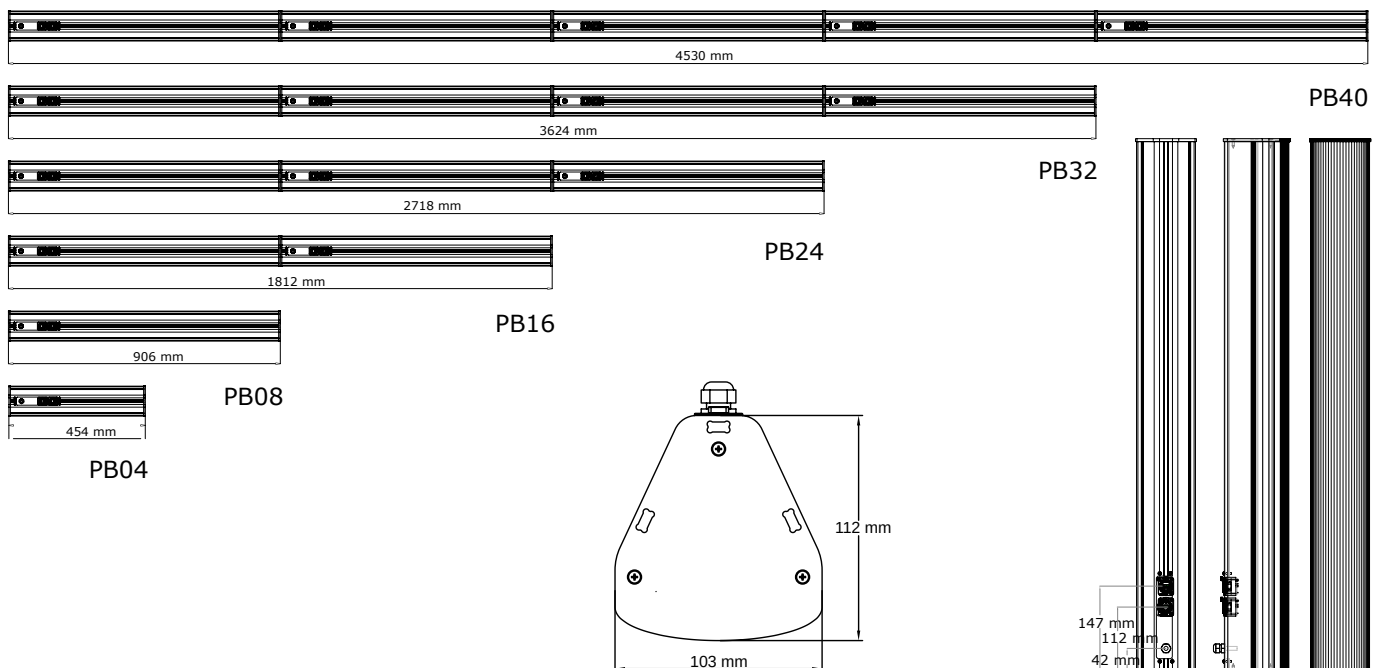
### ELECTRONIC SPECIFICATION

<b>Output Power:</b>	up to 24 x 80 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>	30 VA (normal), 810 VA (max)
<b>Maximum Ambient Temperature:</b>	0° - +40° C (optional -30°C - + 50°C)

### GENERAL SPECIFICATION

<b>Enclosure:</b>	Aluminium-Profil, consisting of three modules
<b>Grille:</b>	Powder coated perforated steel
<b>Colour:</b>	Aluminium RAL 9006
<b>Dimensions (HxDxW):</b>	2718 x 112 x 103 mm
<b>Weight:</b>	16,5 kg (incl. Electronic)

## TECHNICAL DRAWING PAN BEAM 04, 08, 16, 24, 32, 40



**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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## PAN BEAM PB 24 - HOUSING OPTION



### PB 24 (STANDARD)

PB 24 consists of three modules with internal cable loom.



### PB 24 (OPTION)

PB 24 consists of an enclosure with internal cable loom.