

DATASHEET

PAN BEAM PB 16C - ACTIVE DIGITAL STEERABLE COLUMN SPEAKER



The **Pan Beam PB 16C** is a slim line speaker in an appealing design. The Pan Beam **PB 16C** 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 16C** is equipped with 16 specially-designed 3.5" chassis, DSP modules and 16 digital amplifiers offering maximum performance of 40 watts per channel. A single **Pan Beam PB 16C** can cover a listening area of 35 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:

- 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 **PB16/24/32/40**, 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

- Pan Powerline Option
- 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 16C

ACOUSTIC SPECIFICATION

| | |
|---|---|
| Type: | Fullrange-System with 16 x 3,5"-Driver |
| Frequency response: | 70 Hz - 17 kHz (+3/-10 dB)* |
| Dispersion Horiz.: | 130° (3 kHz), 70° (10 kHz) |
| vertical Beamangle: | 3°- 40°, digital steerable |
| Beams: | 4 |
| Acoustic focus adjustable, depending on the length | |
| Tilt: | -70° - +70°, digital steerable |
| Focus Distance: | 1 m up to 75 m |
| Typical Distance: | 35 m |
| SPL-limit (peak): | 128 dB SPL* @1m (cal.) 94 dB SPL @ 25 m |
| Dynamic-Range: | >92 dB |

*anechoic halfspace conditions

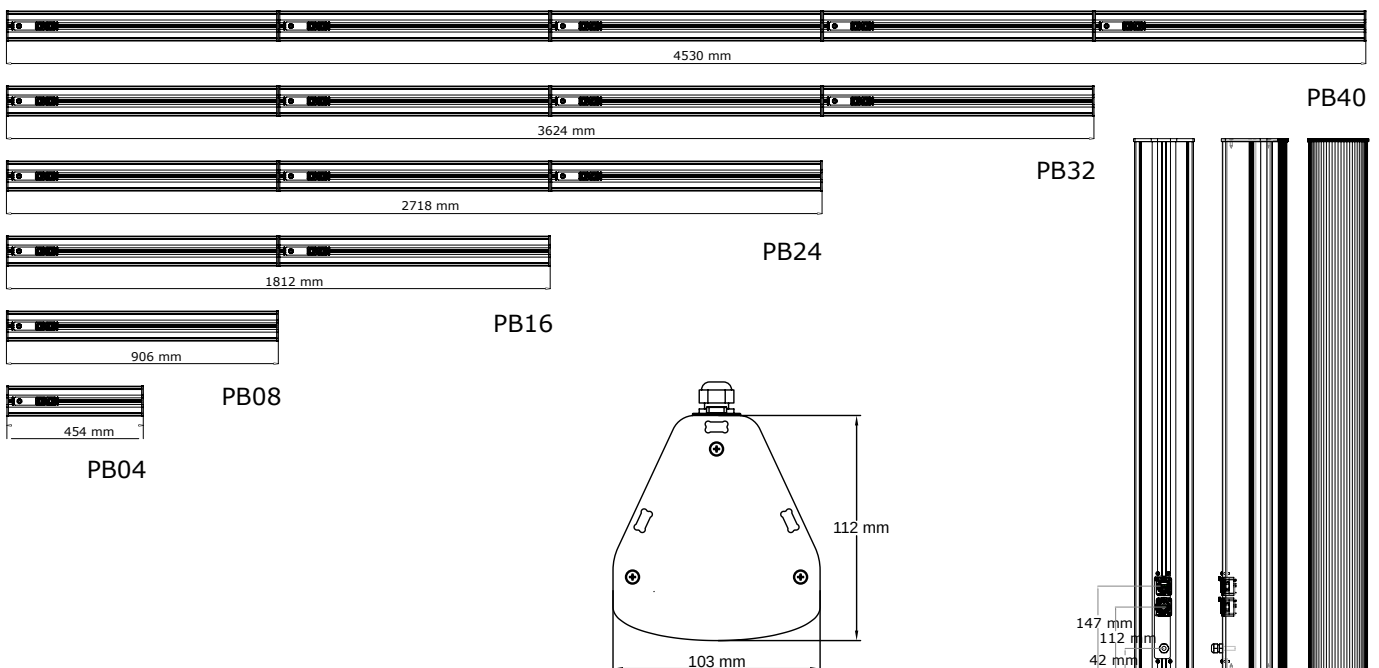
ELECTRONIC SPECIFICATION

| | |
|---|---|
| Output Power: | up to 16 x 40 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: | 10 VA (normal), 270 VA (max) |
| Maximum Ambient Temperature: | 0° - +40° C (optional -30°C - + 50°C) |

GENERAL SPECIFICATION

| | |
|----------------------------|---|
| Enclosure: | Aluminium-Profil, consisting of two modules |
| Grille: | Powder coated perforated steel |
| Colour: | Aluminium RAL 9006 |
| Dimensions (HxDxW): | 1812 x 112 x 103 mm |
| Weight: | 11 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.

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PAN BEAM PB 16 - HOUSING OPTION



PB 16 / PB 16-C (STANDARD)

PB 16 consists of two modules with internal cable loom.



PB 16 / PB 16-C (OPTION)

PB 16 consists of an enclosure with internal cable loom.