

DATASHEET

PAN BEAM PB 40 - ACTIVE DIGITAL STEERABLE COLUMN SPEAKER



The **Pan Beam PB 40** is a slim line speaker in an appealing design. The Pan Beam **PB 40** 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 40** is equipped with 40 specially-designed 3.5" chassis, DSP modules and 40 digital amplifiers offering maximum performance of 80 watts per channel. A single **Pan Beam PB 40** 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 40

ACOUSTIC SPECIFICATION

Type:	Fullrange-System with 40 x 3,5"-Driver
Frequency response:	70 Hz - 17 kHz (+3/-10 dB)*
Dispersion Horiz.:	130° (3 kHz), 70° (10 Hz)
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 90 m
Typical Distance:	70 m
SPL-limit (peak):	136 dB SPL* @1m (cal.) 104 dB SPL @ 25 m
Dynamic-Range:	>92 dB

*anechoic halfspace conditions

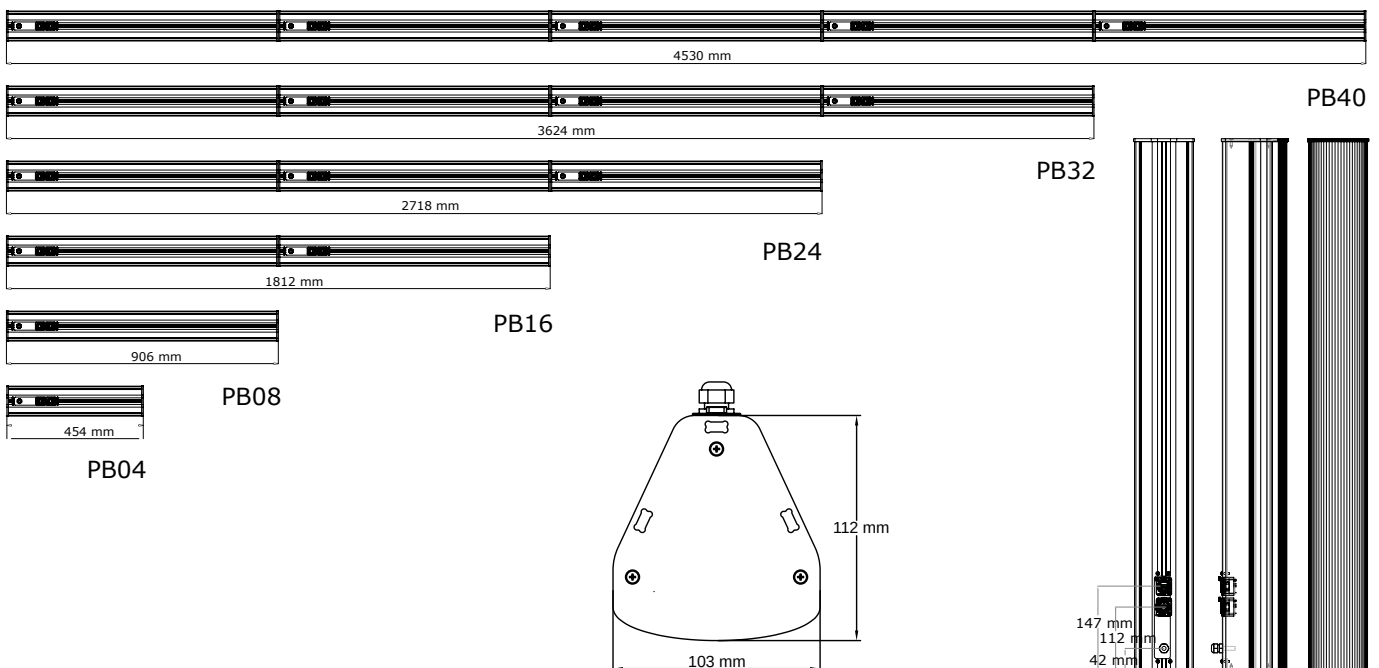
ELECTRONIC SPECIFICATION

Output Power:	up to 40 x 80 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:	50 VA (normal), 1350 VA (max)
Maximum Ambient Temperature:	0° - +40° C (optional -30°C - + 50°C)

GENERAL SPECIFICATION

Enclosure:	Aluminium-Profil, consisting of five modules
Grille:	Powder coated perforated steel
Colour:	Aluminium RAL 9006
Dimensions (HxDxW):	4530 x 112 x 103 mm
Weight:	27,5 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