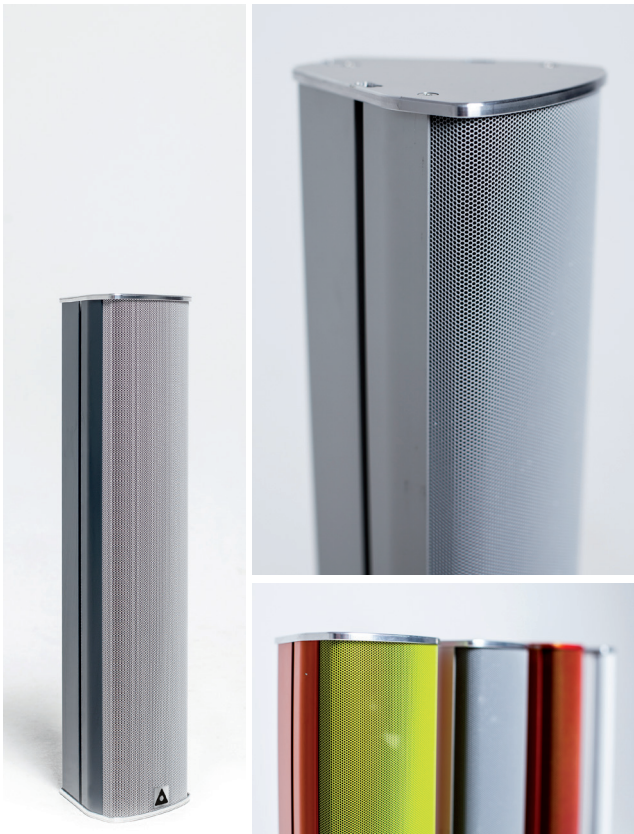


DATASHEET

PAN BEAM PB 07-D
PAN BEAM PB 07-AES/EBU
PAN BEAM PB 07 | 100 V | DC INPUT

*ACTIVE DIGITALLY STEERABLE
 COLUMN SPEAKER*



The **Pan Beam PB 07** slim-line column speaker in an appealing design that was developed for high-quality voice applications. The **PB 07** can generate a highly directed sound beam which can be modified using various optimizers (max. SPL, SPL + min. sidelobes, min. sidelobes). The speakers are operated via user-friendly Windows software and connected to the computer via an RS 485 network or DANTE. Digital signal processing can be used to enter and control the vertical and tilt angle, volume, sound and delay times.

The **Pan Beam PB 07** is equipped with seven specially manufactured 2.1" drivers, DSP modules and four digital amplifiers with a power of up to 50 watts each. A single **Pan Beam PB 07** can cover a listening area of up to 15 meters, with speech intelligibility and sound pressure remaining constant over the entire distance. **The Pan Beam series can be integrated into voice alarm / electroacoustic emergency warning systems according to EN 50849.**

FEATURES:

High efficiency, integrated protection circuits, high speech intelligibility even in acoustically demanding environments, sleek and unobtrusive design, remote monitoring, two audio inputs

INTEGRATED DSP CONTROL FOR:

- Adjustment of vertical radiation (Beam width / tilt angle)
- 5-band parametric equalizer
- Volume control
- Internal delay up to 370 ms
- Connection to media controller possible
- Two independent line inputs with automatic priority switching
- Integration into voice alarm systems according to EN 50849

A wide range of mounting accessories is available for fixed installation and mobile use of the **Pan Beam** series.

AVAILABLE OPTIONS

APPLICATIONS

Houses of worship, museums, live PA, train stations, airports, sports facilities, legislative buildings, conference rooms, lecture halls, shopping centers, A/V presentation rooms

Starting from the Pan Beam PB 08 or PB 15, the **Pan Beam** units can be cascaded in order to improve the lower limit frequency, the sound pressure and the range.

All **Pan Beam** loudspeakers are designed, developed and manufactured in Germany by Pan Acoustics according to strict criteria and with high-quality materials.



All products are designed, developed and manufactured by Pan Acoustics in Germany. Pan Acoustics reserves the right to modify products without prior notice.

www.pan-acoustics.de



TECHNICAL DATA PAN BEAM PB 07-D (DANTE)

ACOUSTIC CHARACTERISTICS

Configuration:	7 x 2.1" drivers
Frequency range:	110 Hz - 18 kHz (+3/-10 dB)*
Horizontal beam:	150° (3 kHz), 90° (10 Hz)
Vert. beam angle:	5° - 40°, digitally steerable
Number of beams:	1
Acoustic focus adjustable according to room length	
Tilt:	-70° - +70° (digitally steerable)
Focus distance:	1 m up to 15 m
Typical distance:	10 m
SPL-limit (peak):	116 dB SPL* @ 1 m (calc.) 89 dB SPL @ 15 m
Dynamic range:	>105 dB

*under anechoic half-space conditions

ELECTRONIC CHARACTERISTICS

Amplifier output/type:	up to 4 x 50 watts max (4 Ohm) / digital PWM
DSP:	24 bit / 96 kHz sample rate
Network I/O	1 x RJ 45 (etherCON) primary 1 x RJ 45 (etherCON) secondary 1 x RJ 45 (etherCON) Pan Net-Link
Audio input via Dante:	44.1 / 48 / 96 up to 192 kHz sample rates
Nominal power consumption:	5 VA (normal), 135 VA (max)
Ambient temperature range:	0 °C - +40 °C (optionally -30 °C - +50 °C)
AC input:	90 V - 264 V AC (+5/-10 %), 50 Hz to 60 Hz
Connection:	IEC socket (IEC-60320 C13)

MECHANICAL PROPERTIES

Enclosure:	aluminium profile
Grille:	powder-coated perforated panel sheet
Color:	Aluminium RAL 9006
Dimensions (H x W x D)	506 x 107.2 x 117.9 mm
Weight:	3.5 kg (incl. electronics)
Mounting accessories:	extensive mounting accessories available

Dante™ is a trademark of Audinate Pty Ltd.



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TECHNICAL DATA PAN BEAM PB 07-D | AES/EBU

ACOUSTIC CHARACTERISTICS

Configuration:	7 x 2.1" drivers
Frequency range:	110 Hz - 18 kHz (+3/-10 dB)*
Horizontal beam:	150° (3 kHz), 90° (10 Hz)
Vert. beam angle:	5° - 40°, digitally steerable
Number of beams:	1
Acoustic focus adjustable according to room length	
Tilt:	-70° - +70° (digitally steerable)
Focus distance:	1 m up to 15 m
Typical distance:	10 m
SPL-limit (peak):	116 dB SPL* @ 1 m (calc.) 89 dB SPL @ 15 m
Dynamic range:	>105 dB

*under anechoic half-space conditions

ELECTRONIC CHARACTERISTICS

Amplifier output/type:	up to 4 x 50 watts max (4 Ohm) / digital PWM
DSP:	24 bit / 96 kHz sample rate
Pan Beam network I/O	2 x RJ 45 (etherCON)
Audio input via Pan Beam network:	digital 44.1 / 48 / 96 / 192 kHz (sample rates /SRC) 1 x analog audio
Nominal power consumption:	5 VA (normal), 135 VA (max)
Ambient temperature range:	0 °C - +40 °C (optionally -30 °C - +50 °C)
AC input:	90 V - 264 V AC (+5/-10 %), 50 Hz to 60 Hz
Connection:	IEC socket (IEC-60320 C13)

MECHANICAL PROPERTIES

Enclosure:	aluminium profile
Grille:	powder-coated perforated panel sheet
Color:	Aluminium RAL 9006
Dimensions (H x W x D)	506 x 107.2 x 117.9 mm
Weight:	3.5 kg (incl. electronics)
Mounting accessories:	extensive mounting accessories available

TECHNICAL DATA PAN BEAM PB 07 | 100 V | DC INPUT

ACOUSTIC CHARACTERISTICS

Configuration:	7 x 2.1" drivers
Frequency range:	110 Hz - 18 kHz (+3/-10 dB)*
Horizontal beam:	150° (3 kHz), 90° (10 Hz)
Vert. beam angle:	5° - 40°, digitally steerable
Number of beams:	1
Acoustic focus adjustable according to room length	
Tilt:	-70° - +70° (digitally steerable)
Focus distance:	1 m up to 15 m
Typical distance:	10 m
SPL-limit (peak):	116 dB SPL* @ 1 m (calc.) 89 dB SPL @ 15 m
Dynamic range:	>105 dB

*under anechoic half-space conditions

ELECTRONIC CHARACTERISTICS

Amplifier output/type:	up to 4 x 50 watts max (4 Ohm) / digital PWM
DSP:	24 bit / 96 kHz sample rate
Pan Beam network I/O	2 x Buccaneer 8-pole
Audio input via Pan Beam network:	2 x 100 V
Nominal power consumption:	5 VA (normal), 135 VA (max)
Ambient temperature range:	0 °C - +40 °C (optionally -30 °C - +50 °C)
AC input:	90 V - 264 V AC (+5/-10 %), 50 Hz to 60 Hz
Connection:	powerCON TRUE1 powerCON TRUE1 / Buccaneer 3-pole (DC)

MECHANICAL PROPERTIES

Enclosure:	aluminium profile
Grille:	powder-coated perforated panel sheet
Color:	Aluminium RAL 9006
Dimensions (H x W x D)	506 x 107.2 x 117.9 mm
Weight:	3.6 kg (incl. electronics)
Mounting accessories:	extensive mounting accessories available

LEGEND: AVAILABLE OPTIONS

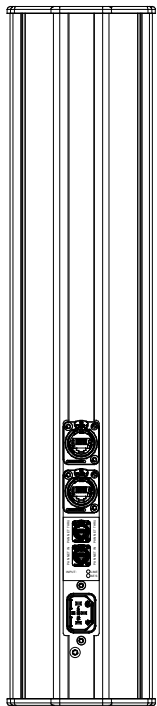
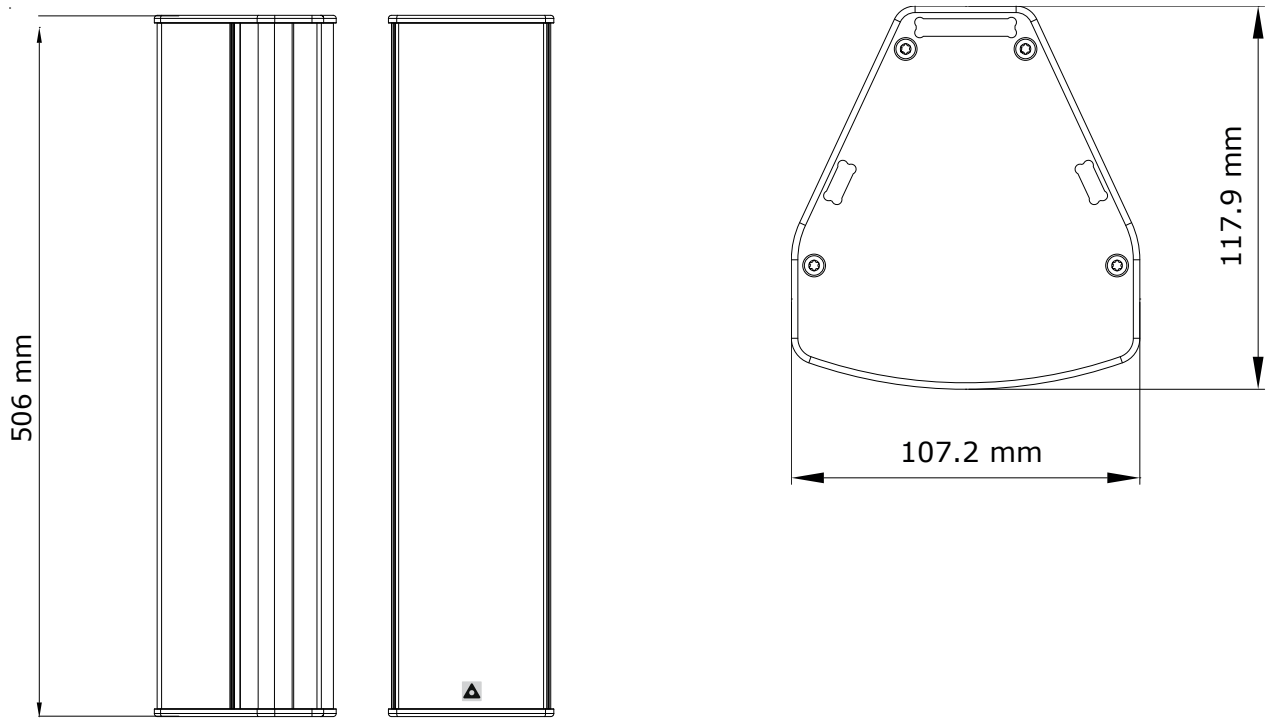
	Comprehensive range of mounting accessories		Pan Beam Net control
	Customized painting/coloring		Analog audio
	Customized length of enclosure		Digital audio AES/EBU DANTE
	Pilot-tone monitoring		Priority switching
	100 V Input		DC Input



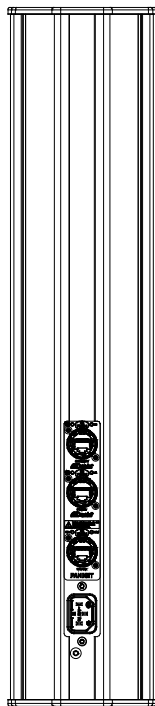
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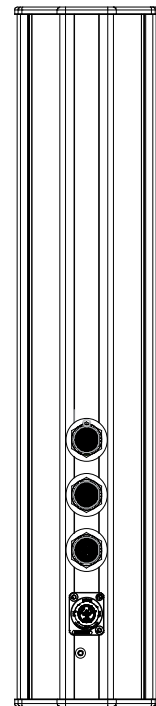
TECHNICAL DRAWING PB 07 D | AES/EBU | 100 V



PB 07 | AES/EBU



PB 07-D



PB 07 | 100 V | DC