PAN ACOUSTICS
WIRELESS DIGITAL AUDIO

Pure acoustics

PAN BEAM

Active digitally steerable column speaker

Pan Beam®

Active digitally steerable column-speaker

The Pan Beam® product offers an all-in-one self powered DSP-controlled solution for nearly every architecturally demanding sound installation.

One of the outstanding capabilities of Pan Beam® is to provide near constant volume across the audience area without needing to tilt or rotate the speakers.

This is achieved electronically by digital signal processing (DSP) techniques whose parameters can easily be adjusted via a PC or over a network.

The ”acoustic beam“ direction can be set in the vertical plane and its opening width adjusted so that it only covers the important area – the audience.

As a further feature of Pan Beam® speakers is that the vertical coverage can be focused by means of the opening angle, elevation angle and focus distance(s). The dual-lobe technology means that separate audience areas can be covered by 2 or more independently controllable beams.

The Pan Beam® speakers columns can also be cascaded in order to improve the lower frequency response, sound pressure levels and the distance over which they operate.

Typical applications include houses of worship, museums, railway stations, conference rooms, lecture halls, shopping centres and audio-visual presentation facilities as well as providing additional sound reinforcement in existing installations.

Wall mounting brackets are included with every unit.

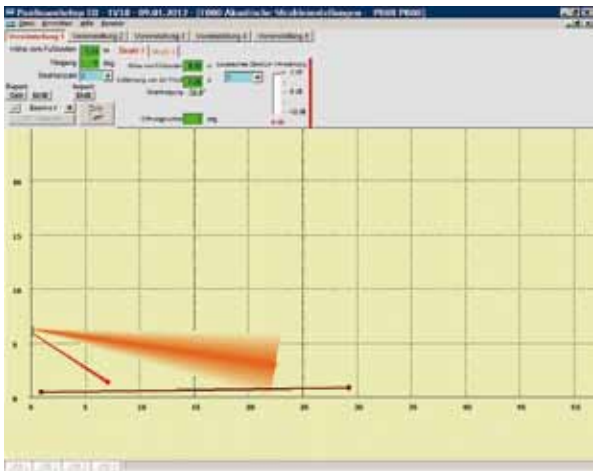
Pan Beam®

The different products

The Pan Beam® range comprises a number of different models:

Current models include: PB 04, PB 08, PB 16, PB 24, PB32 and PB 40 where the number signifies the number of drivers.

The various family members differ in terms of their individual physical parameters which ensures that there is an appropriate model to suit the size and location to be covered.



User friendly PC Software:

The Pan Beam® setup software controls all parameters such as beam angle, tilt angle, acoustic centre, delay, equaliser and gain.

Each electronic device and speaker can be checked by the software.

Options:

- extended delay
- dual Line-Level audio
- inputs with priority control
- 48V /24V and alarm contact
- automatic ambient noise leveling
- full range of mounting accessories
- colour matching service

Pan Beam®

Features:

- integral signal processing and digital amplification
- vertical coverage pattern adjustable to fit the audience area
- wide horizontal dispersion
- build-in electronic driver protection
- high speech intelligibility even in highly reverberant or noisy environments
- internal DSP control of:
  vertical beam,
  opening angle,
  elevation angle,
  focus distance,
  5 band parametric equalizer,
  gain control,
  delay (up to 370 ms)
- RS-485-Networking
- user friendly Windows-Software to control all parameters
- wide horizontal dispersion
- media-bus-control, electronic surveillance
- wall mounting hardware included
- mounting options for fixed installation and portable use
- slim compact design
- lightweight
- other products of Pan Beam®:
  PB 04, PB 08, PB 16, PB 16-C, PB 24,
  PB 32, PB 40, PB 224, PB 248,
  PB 8-15 and PB-S 208
- engineered and manufactured in Germany

Pan Beam®

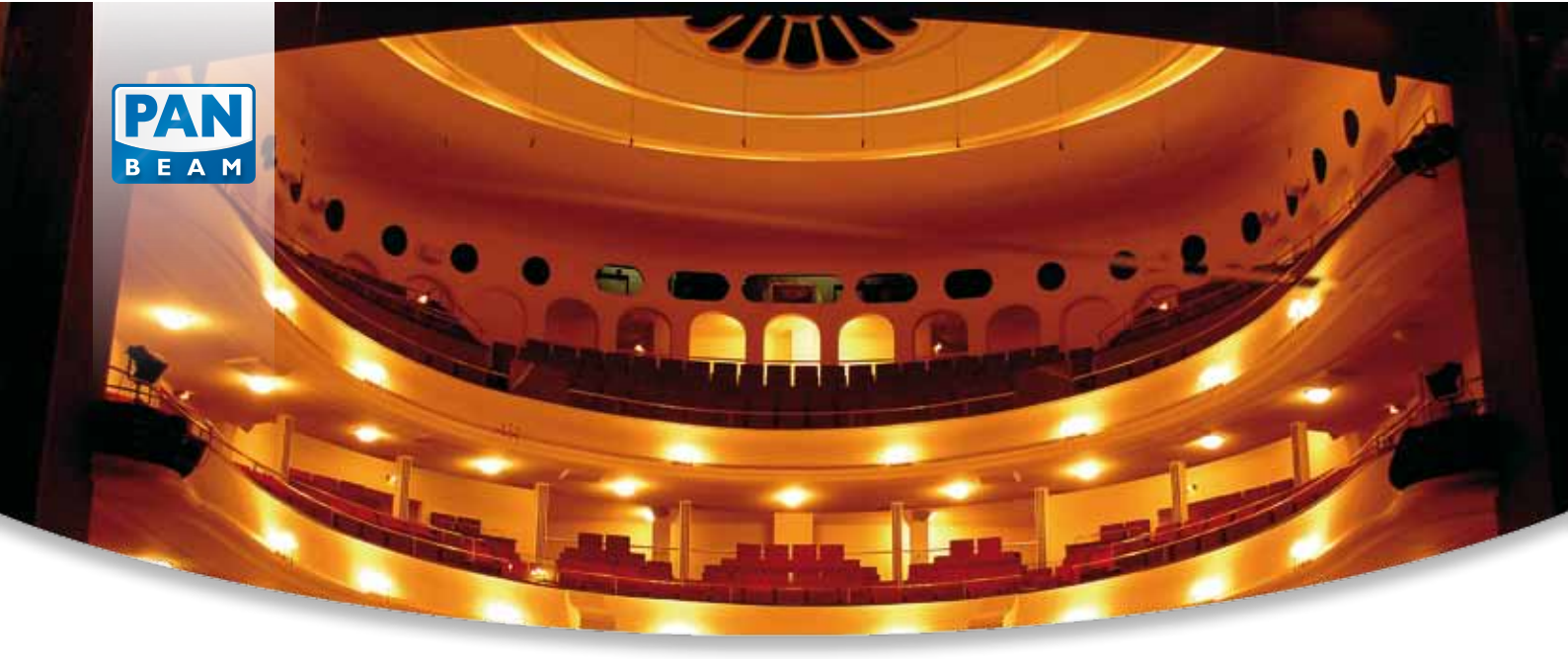
Technical Data:

Configuration:
fullrange-systems, with in-built
digital amplifiers
digital amplifiers, 50 watt max. (4 ohms)
(quantity model dependent)

Operationg range:
frequency range 60Hz - 17kHz
(+3/-10dB)
horizontal dispersion: 150°
vertical dispersion: 2°- 40°
aiming angle: -70° to +70°,,
digitally steerable focus distance:
5m to100m
(model dependent)

Electronic performance:
transformer-balanced inputs
line-level +4 dBu
230 or 110 Volt (+5 / -10%)
-10°C to +50°C

Mechanical Performance:
rear extruded aluminium assembly
powder coated perforated steel grill
colour: aluminium RAL 9006



Pan Beam®

Worldwide successful and reliable use.

When considering installations in acoustically challenging situations, Pan Beam® is your first choice both nationally and internationally.
Below is a small selection of our reference projects.

- Townhall Paris, France
- Royal Palace Fez, Morocco
- Academie Francaise, Paris
- Gahrens & Battermann, Berlin
- Airport Charles de Gaulle, Paris
- Brønnysund Kirke, Norway
- Airport Roissy, Paris
- Pieter Zandt College (Auditorium), NL
- Church Martinique, Caribbean
- Mosque of Touba, Senegal
- Cabaret Lido Moulin Rouge, Paris
- Carlton Hotel St. Moritz, Switzerland
- Townhall Hanover, Germany
- Provoon Tuomiokirkko, Finland
- Daimler Benz-Museum, Germany
- Venice Biennale, Italy
- Suva CCR-Auditorium Sion, Switzerland
- IHK Headquarter Berlin, Germany
- Argon Audio Montpellier, France
- Church Rupperswil, Switzerland
- AUDIMAX TU Berlin, Germany
- Jewish Church Hamburg, Germany
- University of St. Gallen, Switzerland
- University Groningen, Netherlands

- Roadshow VW Golf VI and Audi A8
- Railway Station in Leipzig, Germany
- Fraunhofer Institute, Germany
- Coal mining, Germany
- GKB-Bank Auditorium, Switzerland
- Hotel Scala Milan, Italy
- Banquet Hall Santis, Switzerland
- Santa Maria Church Assago, Italy
- St. Stephen‘s Basilica, Hungary
- Ice Rink Romanshorn, Switzerland
- Bank of France Paris, France
- Warner Bros. Movie World, Germany
- HDI-Insurance Hanover, Germany
- DiTiB Merkez mosque, Germany
- Hall of States Bern, Switzerland
- Church Urtenen, Switzerland
- AVN Daulmerie W., France
- TGV-Trainstation Besancon, France
- Catholic Church Hévíz, Hungary
- Industr. Audit. Dietikon, Switzerland
- Lille Airport, France
- Eden ROC/Hotel, Switzerland
- Provoon Tuomiokirkko, Finland
- Linde AG Headquarter, Germany
- Showtec Cologne, Germany
- VW Markenpavillion, Germany
- FHTW AUDIMAX Berlin, Germany
- Temple de Chene, Switzerland

PAN ACOUSTICS
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Pan Acoustics products

PAN BEAM PAN JERICHO PAN SURROUND

Pan Acoustics combines expertise and know-how.

All Pan Beam® products are by far the lighttest models in the digitally steerable array market. They are absolutely weatherproof and proven to be energy efficient with very low standby power consumption.

This makes them a robust and economic proposition for our customers projects.

All our products are built to strict European Standards and Pan Acoustics ensures consistently high build quality.

Additionally, all Pan Beam® undergo a 100% burn in test.

Quality – made in Germany

Pan Acoustics GmbH

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