



Active Digital Steerable Column Loudspeaker

...Pure sound right on target

PanBeam® PB216

Features:

- ◆ Integral signal processing and digital amplification
- ◆ Vertical coverage pattern adjustable to fit the audience area
- ◆ Dual-lobe technology
- ◆ Audio DSP processing for:
 - control of vertical beam
 - opening angle
 - elevation angle
 - focus distance
 - advanced 5-band parametric equaliser
 - dual audio input with separate volume control
 - delay up to 370ms
- ◆ Electronic driver protection
- ◆ High speech intelligibility even in highly reverberant or noisy environments
- ◆ Excellent musical performance
- ◆ Slim compact design
- ◆ Weight: 27.5kg
- ◆ Wide horizontal dispersion
- ◆ RS485 networking
- ◆ User-friendly Windows software to control all parameters
- ◆ Media bus control, electronic surveillance
- ◆ Mounting options for fixed installation and portable use
- ◆ Other PanBeam® models include PB08, PB16, PB16-C, PB24 and PB232
- ◆ Engineered and manufactured in Germany





Active Digital Steerable Column Loudspeaker

...Pure sound right on target

PanBeam® offers all-in-one self powered DSP-controlled solutions that are applicable in nearly every demanding sound installation. The main benefit of **PanBeam®** is the ability to focus sound where it should be: **AT THE AUDIENCE!**

The **PanBeam® PB216** is ideally suited to situations where improved speech intelligibility and/or musical performance is required and is also well suited to environments with unfavourable acoustics.

A single **PanBeam® PB216** is capable of covering an audience-area of up to 50m, giving a constant sound pressure and clarity over the complete distance.

The **PanBeam® PB216** is equipped with six custom made 6.5" drivers and ten custom made 1" DHN drivers complete with digital processor boards and sixteen digital power amps thus achieving an optimised result in sound and directivity.

The in-built DSP system offers a wealth of audio processing features including volume control, parametric EQ and delay.

An important feature is that the vertical coverage can be adjusted in terms of the opening angle, elevation angle and focus distance. When using the dual lobe technology it is possible to cover audience areas with two separate adjustable beams.

The **PanBeam®** parameters are adjusted by user-friendly Windows control software. Beam steering parameters, audio processing and surveillance features etc. can all be easily controlled.

It is also possible to interface with external control systems.

PanBeam® is the ideal solution for easy and unobtrusive implementations, even in the most architecturally sensitive environments.

The **PanBeam® PB216** can be cascaded to form **PanBeam® PB232** systems, thus improving frequency range, beam width and steerability. It will result in a more distinct throw especially in the lower frequencies and also in a higher sound pressure level.

Typical applications include:

- Churches
- Museums
- Railway stations
- Airports
- Conference facilities
- Lecture halls
- Shopping malls
- A/V presentation rooms
- Fill or delay system in larger installations
- Rental

Options available:

- Extended delay
- Audio input priority
(2 inputs available as standard)
- Automatic ambient noise levelling
- Full range of mounting accessories
- Colour matching service
- Sub-woofer output

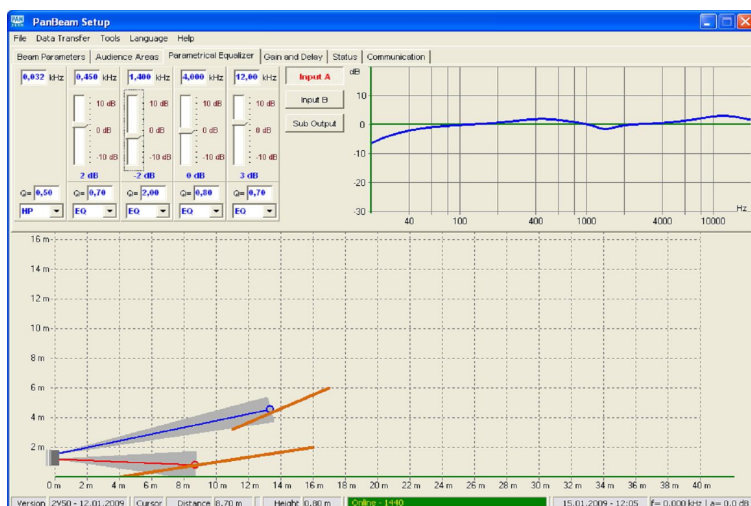
Accessories:

- Mountings for portable and fixed use
- Flight cases
- Cabling and network components



Active Digital Steerable Column Loudspeaker

...Pure sound right on target



User-friendly **PanBeam®** setup software to control: beam parameters, equalising, gain and delay.

Use it to set up a network, indicate audience areas, check the status of the electronic devices etc.



The **PanBeam®** range comprises a number of models.

Shown left are the **PanBeam®** PB232, PB216, PB24, PB16 and PB08.

They all include the necessary power amplification and state of the art DSP hardware.



Active Digital Steerable Column Loudspeaker

...Pure sound right on target

PanBeam® PB216 Specification

Configuration:

2-way system, 6 x 6.5" cone, 10 x 1" HF-Neodym driver

Operating Mode:

Self-powered, 16 x digital amplifier

Acoustical Performance:

Operating range: 60Hz - 20kHz (+3/-10dB)
Nominal beam width: Horizontal: 150°
Vertical: 3° - 40° digitally adjustable
Aiming angle: +/- 60°, digitally adjustable
Focus distance: 2m to 75m
Typical throw: 35m
SPL limit (avg): 101dB A-weighted with pink noise at 25m
SPL limit (peak): 104dB SPL at 25m
Dynamic range: >92dB

Electronic Performance:

Amplifier output: 10 x 40 Watt max (4 Ohm) HF
6 x 100 Watt max (4 Ohm) MF/LF
Amplifier type: Digital PWM
Inputs: 2x transformer-balanced
Line-Level: +4dBu
AC Mains: 230v or 110v (+5/-10%)
Power consumption: 30VA (idle), 700VA (max)
Temperature range: -10° to +50°C ambient

Mechanical Construction:

Enclosure: Rear extruded aluminium
Grill: Powder-coated perforated steel
Colour: Aluminium RAL 9006
Dimensions: 1100 x 244 x 210mm
Weight: 27.5kg

We reserve the right to make changes without prior notification.

Rev 1.2 Aug 09