



Active Digital Steerable Column Loudspeaker

...Pure sound right on target

PanBeam® PB16-C

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
- ◆ Slim compact design
- ◆ Weight: 12.5kg
- ◆ Wide horizontal dispersion
- ◆ RS485 networking
- ◆ User-friendly Windows software to control all parameters
- ◆ Media bus control, electronic surveillance
- ◆ Wall mounting hardware included
- ◆ Mounting options for fixed installation and portable use
- ◆ CATT Acoustic and EASE simulation modules available
- ◆ Other PanBeam® models include PB08, PB16, PB24 and PB216
- ◆ Engineered and manufactured in Germany





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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® PB16-C** is ideally suited for environments, where improved speech intelligibility is required and is also well suited to environments with (very) unfavourable acoustics.

The **PanBeam® PB16-C** is the lower priced, lower power version of the **PanBeam® PB16** with the same ability to steer sound but at a lower sound pressure level. Compared with the **PanBeam® PB08** it has better directivity and a wider frequency response.

A single **PanBeam® PB16-C** is capable of covering an audience-area of up to 35m, giving a constant sound pressure and clarity over the complete distance.

The **PanBeam® PB16-C** is equipped with sixteen custom made 3.5" drivers 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 up to four 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® PB16-C** can be cascaded to form the **PanBeam® PB24-C, PB32-C** systems etc., 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.

The **PanBeam® PB16-C** is supplied complete with wall mounting hardware.

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

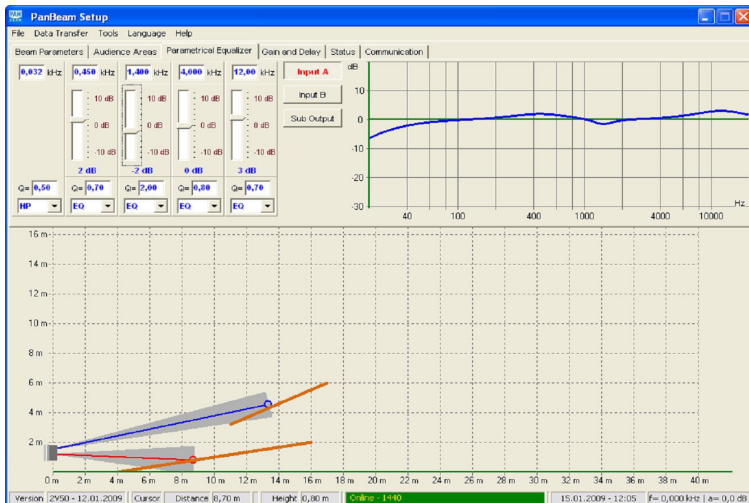
Accessories:

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



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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.



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PanBeam® PB16-C Specification

Configuration:

Full range system, 16 x 3.5" cone

Operating Mode:

Self-powered, 16 x digital amplifier

Acoustical Performance:

Operating range: 95Hz - 15kHz (+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): 88dB A-weighted with pink noise at 25m
SPL limit (peak): 94dB SPL at 25m
Dynamic range: >92dB

Electronic Performance:

Amplifier output: 16 x 25 Watt max (4 Ohm)
Amplifier type: Digital PWM
Inputs: 2x transformer-balanced
Line-Level: +4dBu nominal
AC Mains: 230v or 110v (+5/-10%)
Power consumption: 10VA (idle), 270VA (max)
Temperature range: -10° to +50°C ambient

Mechanical Construction:

Enclosure: Rear extruded aluminium
Grill: Powder-coated perforated steel
Colour: Aluminium RAL 9006
Dimensions: 1800 x 94 x 92mm
Weight: 12.5kg
Ingress protection: IP54 (IP65 as an option)

We reserve the right to make changes without prior notification.

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