



Active Digitally Steerable Column-Speaker

Pan Beam® PB 40 – Features

- Integral Signal Processing and Digital Amplification
- Vertical coverage pattern adjustable to fit the audience area
- Dual-Lobe-Technology
- Internal Audio-DSP-Control for:
 - control of Vertical Beam
 - opening angle
 - elevation angle
 - focus distance
 - 5 band Parametric Equalizer
 - Volume Control
 - Delay up to 370 ms
- Build-in Electronic Driver Protection
- High Speech Intelligibility even in highly reverberant or noisy environments
- Slim Compact Design
- Lightweight: 37,5 kg
- Wide Horizontal Dispersion
- RS-485-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
- Other products available in the PanBeam®-Family:
PB 08, PB 16, PB 16-C, PB 24, PB 32, PB 224, PB 248,
P 8-1, PB-S 208
- Engineered and manufactured in Germany



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Active Digitally Steerable Column-Speaker

Pan Beam® PB 40

Technical Data

Configuration

fullrange-system, 40 x 3,5" cone

Operating Mode

self-powered, 40 x digitally amplifier

Acoustical Performance

Operating Range:

65 Hz to 15 kHz (+3 / -10 dB)

Nominal Bandwidth:

horizontal: 150°

vertical: 8° to 40°, digitally variable

aiming angle: -45° to +45°, digitally variable

focus distance: 5 m to 90 m

typical throw: 70 m

SPL-Limit (avg):

93 dB A-weighted with pink noise at 25 m

SPL-Limit (peak):

100 dB SPL at 25 m

Dynamik range:

> 92 dB

Electronic Performance

Amplifier output:

50 Watt max. (4 Ohm) 40 x

Amplifier type:

digital PWM

Input:

transformer-balanced, Line-Level +4 dBu

AC mains:

230 or 110 Volt (+5 / -10%)

Power consumption:

50 VA (idle), 1350 VA (max.)

Temperature range:

-10°C to +50°C ambient

Mechanical Performance

Enclosure:

rear extruded aluminium

Grill:

powder-coated perforated steel

Colour:

aluminium RAL 9006

Dimensions:

4570 x 99 x 107 mm

Weight:

37,5 kg

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Active Digitally Steerable Column-Speaker

Pan Beam® PB 40 Technical Data

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

The important benefit of PanBeam® is the possibility to focus the audio-output to where it should go: **to the audience.**

The PanBeam® PB 40 is ideally suited for smaller environments with unfavourable acoustical circumstance, where improved speech intelligibility is required.

A single PanBeam® PB 40 is capable of covering an audience-area of up to 90 m, giving a constant sound pressure and clarity over the complete distance.

The PanBeam® PB 40 is equipped with eight custom-made 3,5"-woofers, eight full digitally processor-boards and eight digital power-amps to achieve an optimized result in sound and directivity.

The included DSP-System offers a wealth of useful audio processing features including: volume control, parametric EQ and delay.

As a special feature the vertical coverage can be focused in opening angel, elevation angle and focus distance. Using the feature of the dual-lobe technology it is possible to build up two audience-areas covered by two different beams.

The PanBeam® can be controlled by a special userfriendly Windows Control software for set up the beam steering parameters, audio processing and surveillance features. Also the implementation of existing mediacontrol systems is possible.

The PanBeam® gives the ideal solution for easy and unobtrusiv implementation in even the most architecturally sensitive environment.

PanBeam® PB 40 gives the ideal solution for easy and

unobtrusive implementation in even the most architecturally sensitive environment. Wall mounting hardware included

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Active Digitally Steerable Column-Speaker

Pan Beam® PB 40

Technical Data

PanBeam® Product-Family

PanBeam® is a family of several intelligent models: PB 08 with eight channels, PB 16 and PB 16-C with 16 channels, PB 24 with 24 channels, PB 32-C and the big PB 232 with 32 channels. Every type included amplifiers and maximum DSP-power. More PanBeam®-Products will be released in the near future.

Typical Applications

churches, museums, railway-stations, conference facilities, lecture halls, shopping malls, A/V presentation rooms, fill or delay system in larger installations

Available Options

extended delay, dual line level audio, inputs with priority, automatic ambient noise, levelling, full range of mounting accessories, colour matching service

User-Friendly PC-Software

PanBeam®-Setup to control all parameters

The beam parameters, the EQ, gain, delay, to set up a network, build up audience areas and check the status of each electronic device.

