

10 years Pan Beam – Digital controllable column speakers

10 years Pan Beam! As 2003 the cornerstone was laid for this product line, nobody could imagine that the Pan Beam series will happen to be Pan Acoustics' success story. In 2005, after two years of development work, the Pan Beam series was presented to the public.

Founded in 2002 by Udo Borgmann, Pan Acoustics is now known as a specialist in electronic and acoustic solutions. Durable and high quality products for various applications in the field of sound, room acoustics, networking and control technology are the core competence of Pan Acoustics.

With the model Pan Beam PB 08, Pan Acoustics was the first German manufacturer which has designed a digitally controllable column speakers. Pan Beam stands for maximum flexibility and variety of system options, while maintaining quality and highest reliability.

The series has been designed so that other models can be added, such as the Pan Beam PB 224, which produces a natural high sound pressure up to 130 dB.

The Pan Beam series offers 13 different models.

Thanks to the unique modular construction system, it is possible to cascade several Pan Beam models and remote them by means of an easy using PC software for more high performing units. For many years, the Pan Beam series has been featuring outstanding technologies such as AES / EBU, 100V, pilot tone monitoring, ambient noise function with microphone volume control. Except for the PB 04, each Pan Beam is equipped with a multi beam technology. Using the multi beam technology, up to four independent beams can be created, which can individually be set regarding radiation behaviour and level. The architecturally compelling housing and the high liability of Pan Beam have no limit: whether in a coal mine or into any water environment or in a classic audio installation, there are different models available, that can match many environments. The low energy consumption speakers are also suitable for temperature from -30°C to $+50^{\circ}\text{C}$.

In the June 2007 „Professional System“ publishing, two Pan Beam models, PB 08 and PB 16 were tested by Anselm Goertz. The conclusion of the test is as follow: „The Pan Beam is designed to produce a professional sound for use in difficult acoustical environments. Despite the compact dimensions, the Pan Beam is capable of reproducing very high sound pressure levels. Due to the numerous programming possibilities, even unusual requirements can be fulfilled. Regarding acoustic measurements, there is nothing wrong. This is reflected in the listening by a clean, stabil sound reproduction.

In view of the high-quality processing and the features such as IP54 protection, the option to drive the speakers in battery mode, the price of Pan Beam can even seem low. The achievable runtime using the battery is ten hours, which is very advantageous in case of power failure bypass in mobile applications. Thus, the Pan Beam is a profitable investment for its holder „

Another innovative feature is the new available Dante network. Thanks to this, the Pan Beam can be integrated in the small and large Dante network. This enhancement is proving that Pan Acoustics is a pioneer, which has introduced a finished product that features beam steering functions as well as Dante network.

With the Pan Beam series, Pan Acoustics has become one of the global market leaders in the field of digitally controllable line speakers with an annual growth rate of 27%. The Pan Beam series is exported to more than 20 countries, and the success story continues.

An intelligent and powerful DSP engine allows the Pan Beam series to fit in with the market requirements, quickly and easily. For the next few years, the Pan Beam family will continue to grow. For special customers requirements, e.g. in difficult industrial projects, there are further Pan Beam models in planning such as the two-dimensional beam steering.

