Beam®



iBeam[®] slave

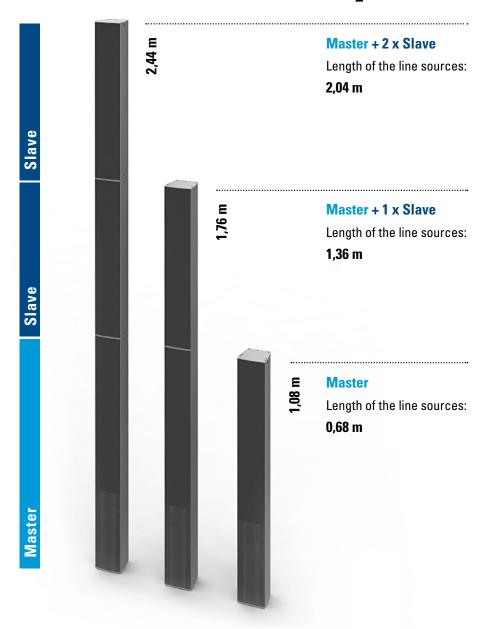


Modular **Beam Steering** System

Beam steering line source loudspeaker with up to 24 DSP and amplifier channels. The modular system is based on the iBeam Master, containing eight 3" broadband speakers, the DSP amplifier unit and a high-performance power supply. The system is expanded with up to two iBeam Slaves, which only contain the drivers and amplifiers. The relatively large cabinet volume ensures good speech reproduction without an additional subwoofer.

Applications: Acoustically difficult rooms such as lecture halls, concert halls, churches, exhibition halls and foyers, in which a very even and low-feedback reproduction and at the same time an unobtrusive appearance are required.

Modular System





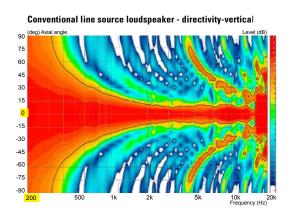
The electrical connection of the modules is made via multipin connectors, which are also aligned via locating pins.

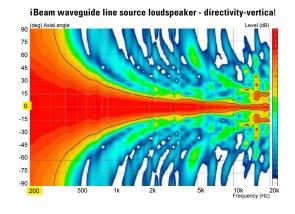
The mechanical connection is made via integrated, retractable connecting links.

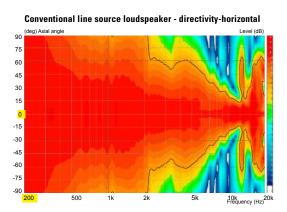


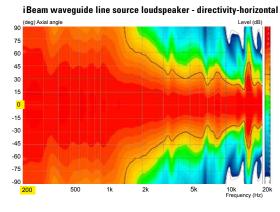
Signal inputs:
The analog input, the AES/EBU digital input and the Ethernet-based Dante® are available as standard from the factory.
The integration in media controls is possible using the common JSON transfer protocol.

The iBeam uses 3"broadband chassis, which have very good acoustic properties. They work on specially developed waveguides which optimize the coupling of the individual sources. In this way, high frequencies of over 10 kHz are radiated without the annoying side lobes that are common with conventional column speakers. This special type of wave guidance also results in a well-controlled and homogeneous horizontal radiation. The vertical radiation behavior of the overall system is pre-cisely adapted to the listening area using intelligent software algorithms.





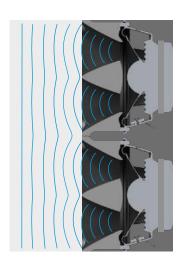






Waveguide for 3"Chassis

- Best possible coupling to a line source
- Controlled horizontal directivity
- Enhanced efficiency



iBeam[®] software

Audience area - optimization

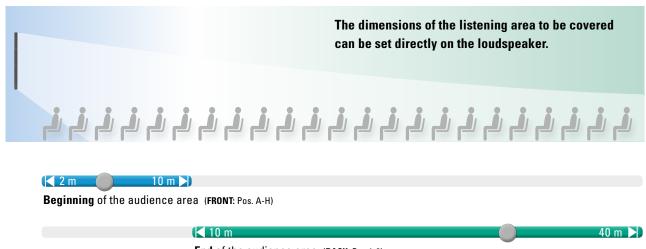
The basis for the iBeam controller software is the audience's listening area, not a specific beam angle.

Simple and quick access directly at the loudspeaker

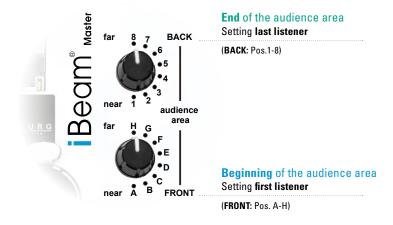
iBeam' quick and easy access

The iBeam can be set directly at the loudspeaker via 8 x 8 fixed presets for quick and easy use, even without a laptop. The beginning and the end of the listening area to be covered are set using two encoders.

The result is even coverage from the first to the last row.



End of the audience area (BACK: Pos.1-8)



Basic mode

Easy iBeam Controller

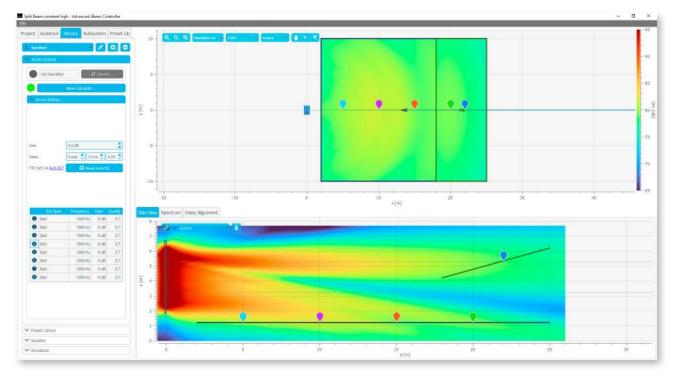


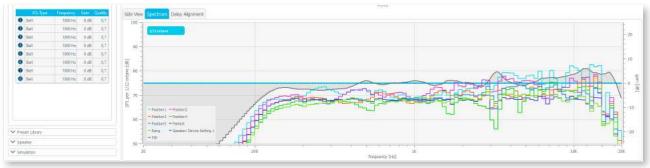
In the Easy iBeam Controller, the user only enters the installation height of the iBeam and the beginning and the end of the listening area to be covered. The intelligent algorithm then optimizes the vertical sound radiation so that the level and frequency response are as uniform as possible within the listening area. Side lobes are suppressed to a very low level. The integrated Auto EQ linearizes the frequency response in the listening area without any further action on the part of the user.

Professional mode

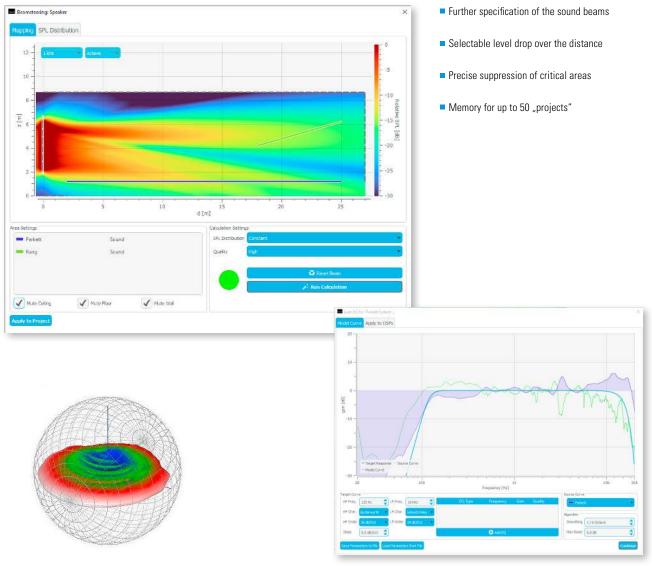
Advanced iBeam Controller

In the Advanced iBeam Controller, more complex audience areas such as grandstands and galleries can be entered and larger applications with several sources can be predicted. Each array can consist of up to two master and four slave modules. The algorithm calculates the necessary FIR filters for the up to 48 power amplifier channels. The vertical radiation behavior depends on the assigned listening areas and can have a width of up to 60° as well as split beams. This enables sound reinforcement tasks to be solved that were not possible with conventional line sources.

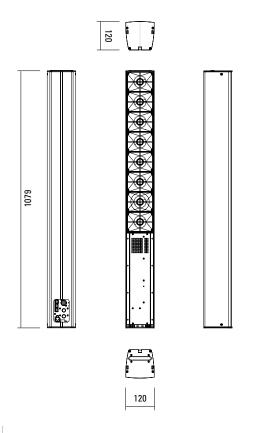


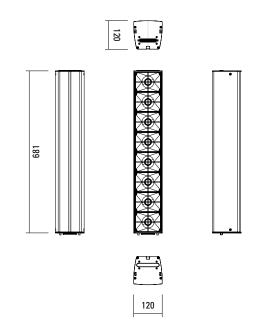


Frequency response optimization for selectable listening areas



In addition to the Auto EQ, up to ten additional EQs and filters can be activated.





iBeam Master







Cabinet

- Cabinet made of powder-coated 3mm aluminum profiles
- Steel grille with anti-corrosion powder coating
- Available colors: black (RAL 9005) and white (RAL 9010).
 Also available in RAL or NCS special colors upon request.







iBeam[®] Master iBeam[®] slave 8 x 3" Nd 8 x 3" Nd **Speaker Components** Master: 16 x 3" Nd Master + Slave: Master + 2 x Slave: 24 x 3" Nd Description 24-way active beam steering DSP column system with FIR Array Beam Steering (FABS) and Mapping Optimiziation Mode (MOM) Amp Power AES Master: 8 x 44 W RMS = 352 W Master + Slave: 16 x 44 W RMS = 704 W Master + 2 x Slave: 24 x 20 W RMS = 480 W **Power Supply** 90-240 VAC **Rated Current** tba. Max. SPL Pink noise 1) Master: 119 dB Master + Slave: 125 dB Master + 2 x Slave: 125 dB Max. Input Signal 28 dBu AD / DA 24 bit / 48 kHz - - -Usable Range - 10 dB 110 Hz - 20 kHz horizontal: 100° (1-3 kHz) und 80° (> 3 kHz) Coverage horizontal / vertical vertical: depends on preset **Connectors** Neutrik XLR in, Phoenix, 24 pol. D-Sub Neutrik PowerCon in, 3 x Ethernet RJ45 Rigging / Fittings Captive rigging system **Rigging components** Stainless steel, 1.4301 (t.b.u.) Max. array size 2 x Master + 4 x Slave Cabinet Aluminum extrusion profile Front Steel grille with anti-corrosion powder coating Finish Powder coating Weight 11,8 kg 6,6 kg 107,9 x 12,0 x 12,0 cm 68,1 x 12,0 x 12,0 cm Size height x width x depth Order No. 00800 00810



¹⁾ Peak level at 1 m under free field conditions using 12 dB crest factor pink noise with preset and Auto EQ for a listener area from 5 to 15 m, cabinet mounting height 2,5 m, listener area 1,6 m height, MOM quality

ACCESSORIES iBeam

Angle Bracket

for iBeam, L-Series

Order No. 08149/angle bracket



Cradle

Max. load 50 kg

Order No. **01399** (RAL 9005) Order No. **01399/w** (RAL 9010)



Stacking Adapter

for mounting iBeam -> M20 Order No. **01398**



Base Plate, Round

M20, K&M, ø 450 mm, height: 21 mm black zinc die-cast, felt strips on the bottom, weight: 6,7 kg

Order No. 01278/round

Speaker Pole

M20, adjustable, K&M

Order No. **03022**

Sliding Block M8

M8

Order No. 64082



Pole Mount

2 x fixing holes (d=73 mm), adjustable

Order No. 08126/L-Series



Flange

35 mm ø -> M10 x 16 mm, M8 x 20 star knob screw

Order No. 08126



Knurled Head Screw

reduction screw for fastening M10 Flange (08126).

Order No. **73755**



Doughty Quick Trigger Clamp

max. load 100 kg

Order No. 01223/100 kg



Ring Screw

M10- DIN 580

Order No. 73700 (zinced)

Order No. **73700/sw** (black zinced)







The continuous groove on the back enables versatile installation options in conjunction with the sliding slot nut.