Beam®

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iBeam[®] Slave

iBeam[®] Master

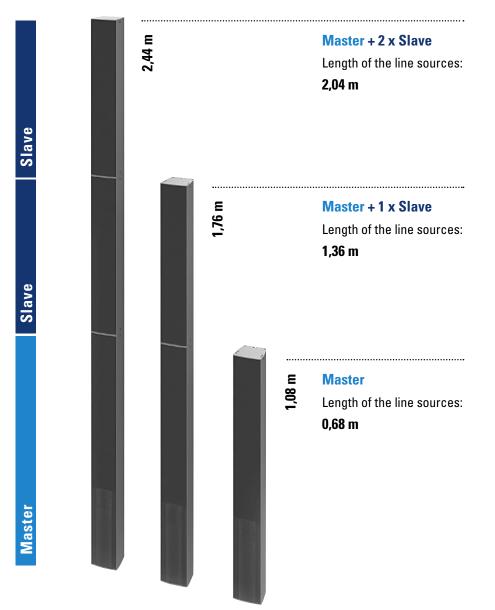
Modular **Beam Steering** System

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 lowfeedback reproduction and at the same time an unobtrusive appearance are required.



Modular System



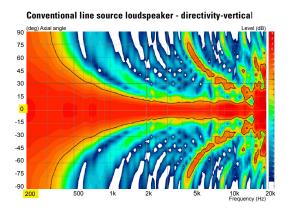
The electrical connection of the modules is made via multipin connectors, which are also aligned via locating pins.

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

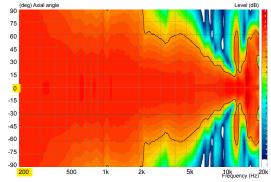




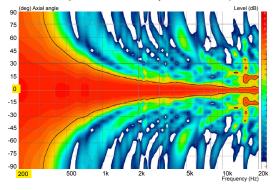
The iBeam uses 3"broadband chassis, which have very good acoustic properties. They work on specially developed waveguides which optimize the coupling of the individual sources. In this way, high frequencies of over 10 kHz are radiated without the annoying side lobes that are common with conventional 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.



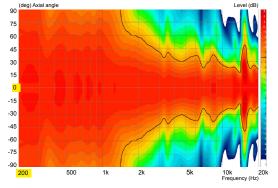
Conventional line source loudspeaker - directivity-horizontal



iBeam waveguide line source loudspeaker - directivity-vertical



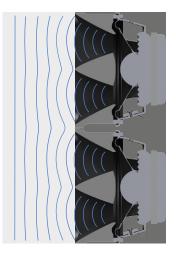
iBeam waveguide line source loudspeaker - directivity-horizontal





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

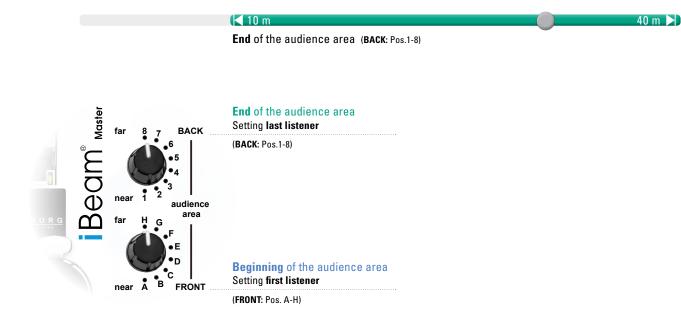
The iBeam can be set directly at the loudspeaker via 8 x 8 fixed presets for quick and easy use, even without a laptop. The beginning and the end of the listening area to be covered are set using two encoders. **The result is even coverage from the first to the last row.**

The dimensions of the listening area to be covered can be set directly on the loudspeaker.





Beginning of the audience area (FRONT: Pos. A-H)





Basic mode

Easy iBeam Controller



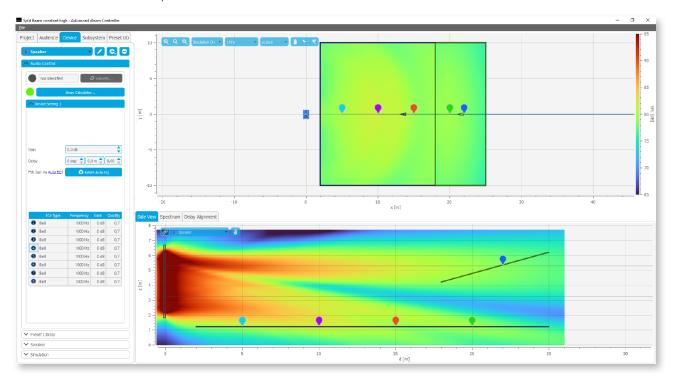
In the Easy iBeam Controller, the user only enters the installation height of the iBeam and the beginning and the end of the listening area to be covered. The intelligent algorithm then optimizes the vertical sound radiation so that the level and frequency response are as uniform as possible within the 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.

> SEEBURG acoustic line

Professional mode

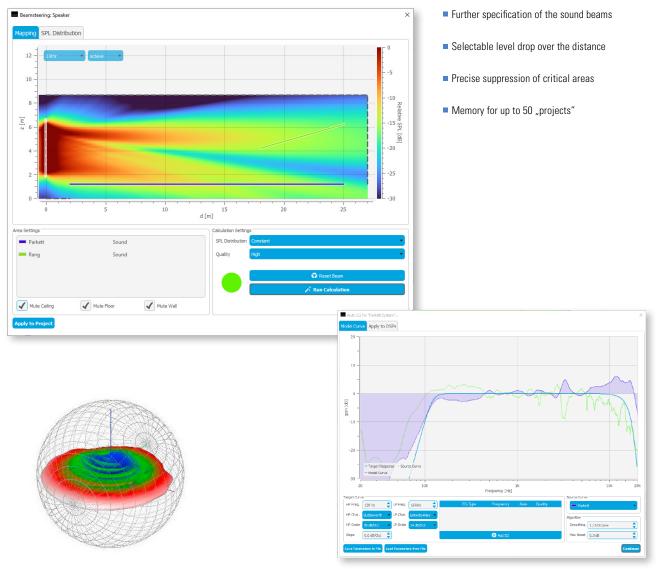
Advanced iBeam Controller

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.





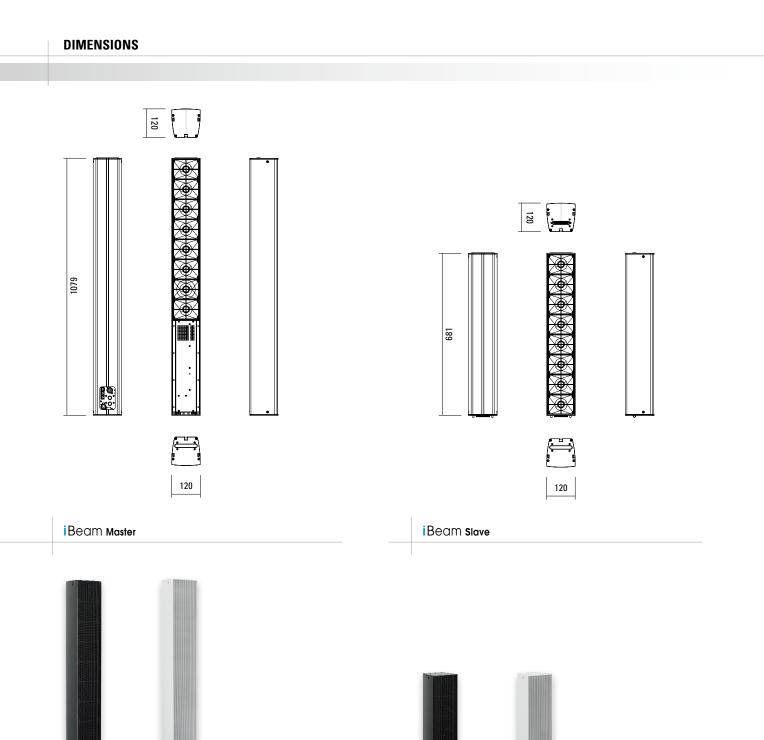
Frequency response optimization for selectable listening areas



■ For integration into EASE[™], an XGLC file can be generated for each project (for use with the iBeam GLL).

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





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.



SEEBURG acoustic line

Speaker Components	i Beam [®] Master Master: Master + Slave: Master + 2 x Slave:	8 x 3" Nd 16 x 3" Nd 24 x 3" Nd	iBeam [®] Slave 8 x 3" Nd	
Description	24-way active beam	steering DSP column system ring (FABS) and Mapping Opt		
Amp Power AES	Master: Master + Slave: Master + 2 x Slave:	8 x 44 W RMS = 352 W 16 x 44 W RMS = 704 W 24 x 20 W RMS = 480 W		
Power Supply	90-240 VAC			
Rated Current	tba.			
Max. SPL Pink noise 1)	Master: Master + Slave: Master + 2 x Slave:	119 dB 125 dB 125 dB		
Max. Input Signal	28 dBu			
AD / DA	24 bit / 48 kHz			
Usable Range - 10 dB	110 Hz - 20 kHz			
Coverage horizontal / vertical	vertical: depends on	horizontal: 100° (1-3 kHz) und 80° (> 3 kHz) vertical: depends on preset		
Connectors	XLR in, Phoenix, Powercon in, 3 x Eth	XLR in, Phoenix,24 pol. D-SubPowercon in, 3 x Ethernet RJ45		
Rigging / Fittings	Captive rigging syste	Captive rigging system		
Rigging Components	Stainless steel, 1.43	Stainless steel, 1.4301 (t.b.u.)		
Max. Array Size	2 x Master + 4 x Slav	2 x Master + 4 x Slave		
Cabinet	Aluminum extrusion	Aluminum extrusion profile		
Front	Steel grille with anti	Steel grille with anti-corrosion powder coating		
Finish	Powder coating	Powder coating		
Weight	11,8 kg	11,8 kg		
Size height x width x depth	107,9 x 12,0 x 12,0	cm	68,1 x 12,0 x 12,0 cm	
Order No.	00800		00810	



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

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





Cradle for iBeam,

incl. (1 x M6 x 10 screw, 1 x rubber washer), max. load 50 kg Order No. **01399** Order No. **01399/w** (RAL 9010)

Angle Bracket

for iBeam, universal, incl. (2 x sliding blocks (64082), 2 x M8 x 16 socket head screws) Order No. **08136** Order No. **08136/w** (RAL 9010)



Wall Mount, long

for iBeam, incl. (2 x sliding blocks (64082), 3 x M8 x 16 socket head screws, 1 x M8 self-locking nut)

Order No. 08134 Order No. 08134/w (RAL 9010)

Wall Mount, short

for iBeam, incl. (2 x sliding blocks (64082), 3 x M8 x 16 socket head screws, 1 x M8 self-locking nut)

Order No. 08133 Order No. 08133/w (RAL 9010)

Pole Mounting Kit

for iBeam, incl. (pole mount adapter (08126), 2 x sliding blocks (64082), 2 x M8 x 16 socket head screws, 1 x knurled head nut (73755)

Order No. **08137/set**





Pole Mount Adapter 35 mm ø -> M10 x 16 mm, M8 x 20 star knob screw Order No. **08126**



Pole Mount Adapter 35 mm ø -> M10 x 16 mm Order No. 08126/II Order No. 08126/II/w (RAL 9010)





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 block.





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ACCESSORIES





129

615

129

800

M20 80

M20

80

I 80

180

Stacking Adapter

for mounting i Beam -> M20, incl. (1 x M20 screw) Order No. 01398 Order No. 01398/w (RAL 9010)

Base Plate, Round

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

Order No. 01278/round

Base Plate, Small with M20 flange, 61,5 x 48,0 cm

Order No. 01278 Order No. 01278/w (RAL 9010)

Base Plate, XL

for stacked mounting, with M20 flange, cable channel, 80,0 x 80,0 cm Order No. 01279

Order No. 01279/w (RAL 9010)



Monopod Slave

for iBeam, size and design like iBeam Slave, height 68,1 cm Order No. 64104 Order No. 64104/w (RAL 9010)

Speaker Pole

M20, with wind up Order No. 03023

M20, adjustable, K&M Order No. 03022

Speaker Stand

incl. wind up, height 138,5 to 218 cm, max. load 50 kg

Order No. 03011

Bag

for 2 x iBeam Master or Slave and accessories Order No. 01235





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