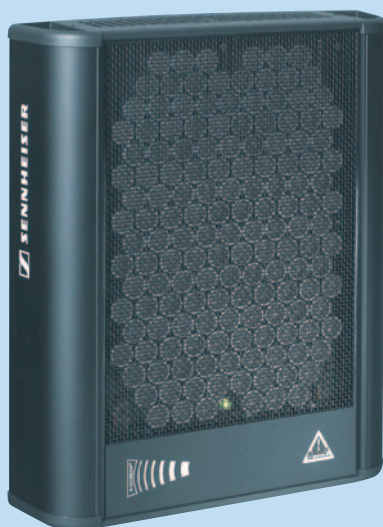




Target your Sound

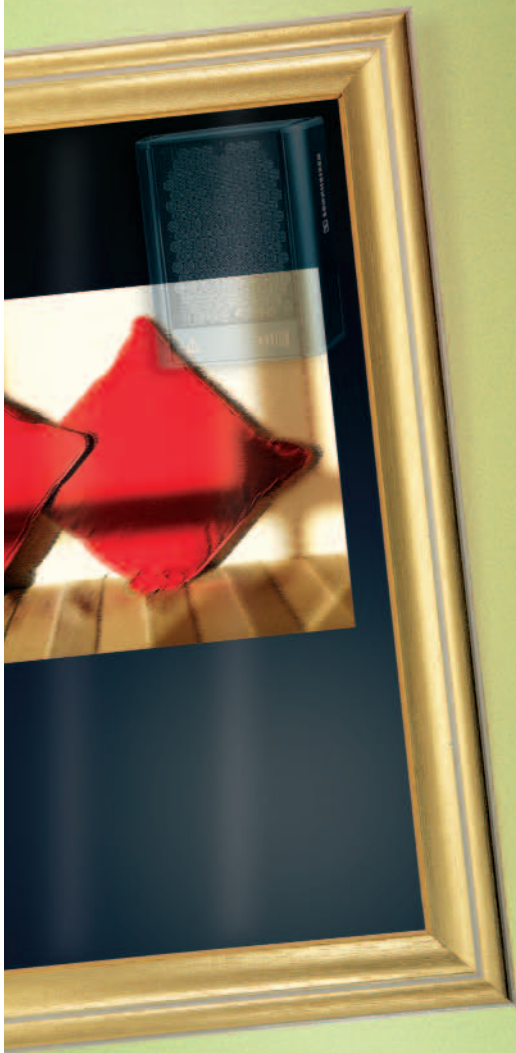
AudioBeam –
Beaming sound to your ear



 **SENNHEISER**

High-quality, directional sound –

Experience the innovative sound of the future:
AudioBeam, Sennheiser's new ultra-directional loudspeaker, allows sound
to be placed precisely where you need it. Whether you are enjoying art
in a museum, using an ATM, or sitting in front of your PC, the AudioBeam
can bring information directly to your ear.



 **SENNHEISER**

AudioBeam – Total accuracy in every situation

- **In exhibitions and museums**

AudioBeam brings a new dimension to the way we learn about art and exhibitions. At an art gallery, if a visitor wants to learn about a particular item on display, they could just step inside the designated 'zone' and let AudioBeam tell them about it. With the reflective properties of the AudioBeam it is even possible to create the illusion that a painting is describing itself. Manufacturers at a tradeshow could literally let their products speak for themselves.

- **Automatic machinery with voice commands**

Machines such as ATMs or electronic voting booths could give instructions to the user while providing a high degree of privacy to their transaction.

- **At PC workplaces**

PC users would have the ability to work without headphones while not disturbing nearby colleagues.

- **For security purposes**

In confidential situations, AudioBeam has the ability to place audio in only the areas that you want it. While one individual may be able to hear the AudioBeam's transmission loud and clear, another individual who is in close proximity may be unaware of any sound at all.



Ventilation slots



On/off switch for distance sensor

Selector switch for input sensitivity (+6 dB, -14 dB)

LED operating display:
green: AudioBeam active
red: AudioBeam inactive



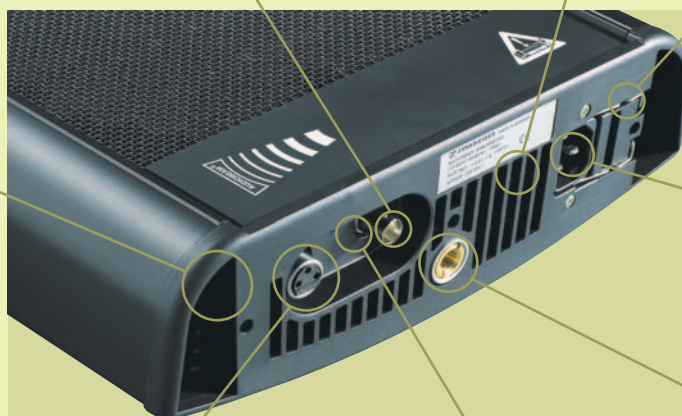
Rear view

Ventilation slots

BNC socket for modulator signal output: **OUTPUT**

Wire clip to hold the main cable in place

Ventilation slots



Main power socket

XLR-3 socket for audio input: **INPUT**

OVERLOAD LED

3/8" threaded hole for stand

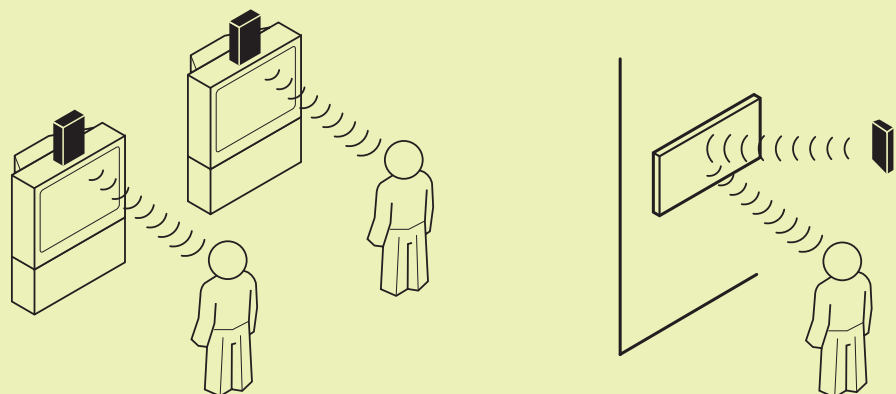
Sound in focus

The new **AudioBeam from Sennheiser** utilizes ultrasound technology to focus sound to a specific area with an amazing degree of accuracy. Unlike standard loudspeakers, in which only higher frequencies exhibit directional properties, AudioBeam's 150 piezoelectric transducers transmit an ultrasonic signal that demodulates at a short distance in front of the unit. This allows you to create a focused, well-defined listening area much like the targeted beam of a spotlight.

Sennheiser engineers refer to the area within the ultrasonic 'beam' where sound is audible as the "Generation Zone". Lower audible frequencies are determined by the distance between the AudioBeam and the "Generation Zone" where the listener is positioned. This characteristic of the ultrasonic 'beam' can be compared to shotgun microphone technology. The longer the microphone, the lower the frequencies are that it can detect. In fact, if the listener is positioned next to or behind the AudioBeam, no sound will be audible at all.

In addition to the "Generation Zone" that the AudioBeam can create, the 'beam' of sound can be reflected off of a smooth surface and heard by the listener. This allows you to create the illusion that a sound is coming from that point of reflection. For example, a painting in a museum could be made to seem as if it is speaking to its audience to describe itself.

AudioBeam's pin-point directivity and reflective properties bring a new and unique tool to sound design.



AudioBeam from Sennheiser:
Beaming sound to your ear

Technical Data

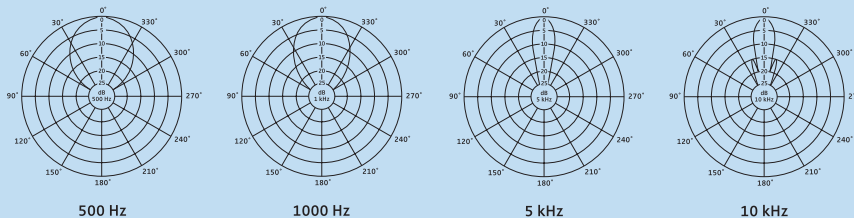
AudioBeam Master

Modulation	wideband AM
Carrier frequency	40 kHz
Amplitude limiting	limiter amplifier
Audio channels	1
Audio input	balanced XLR-3F socket, contacts electrically isolated
Input sensitivity	6 dBm (1.55 V) or -14 dBm (150 mV)
Impedance	600 Ω
Sound pressure level	75 dB ± 5 dB
Audio output	1 x BNC, 50 Ω short-circuit-proof
Amplifier output	approx. 90 W
Power supply	switched mode power supply 110 – 240 V, 50 – 60 Hz max. 100 W
Dimensions	264 x 82 x 320 mm
Weight	approx. 3.1 kg (6.8 lbs)

Accessories

You can obtain the following accessories from your specialist dealer:

GZP 10	Mounting plate for wall and ceiling mounting
GZG 1029	Swivel joint for aligning the AudioBeam, to be used with a stand or the GZP 10 mounting plate. Includes thread adaptor from 1/4" to 3/8"
MZT 14	Screw mounting for attaching flexible necks and swivel joints with 3/8" thread to tabletops
MZT 100	Table stand for easy installation at table height
MZT 1019	Mounting bar for two AudioBeam units with 3/8" internal thread
SEMS 3134	Stand with 3/8" thread
UK mains cable	
European mains cable	
Thread adaptor	



Directivity – AudioBeam polar patterns