

LINKWITZ LAB

Sensible Reproduction and Recording of Auditory Scenes

STEREO SOUND PERCEPTION

Phantom sources between and behind the loudspeakers

The loudspeakers have disappeared

The listening room is forgotten

The illusion is believable and satisfying

ACOUSTIC REQUIREMENTS

“Constant” directivity loudspeakers (Dipole, Omni)

Placement within 3 to 4 feet from walls

Symmetrical setup relative to walls

Normally live room (400-600ms RT)

HEARING

What you hear is not the air pressure variation in itself

but how your brain has interpreted

the superimposed streams of air pressure variations

at the eardrums.

We must remove misleading cues

from the loudspeaker and room streams

to perfect the stereo illusion.