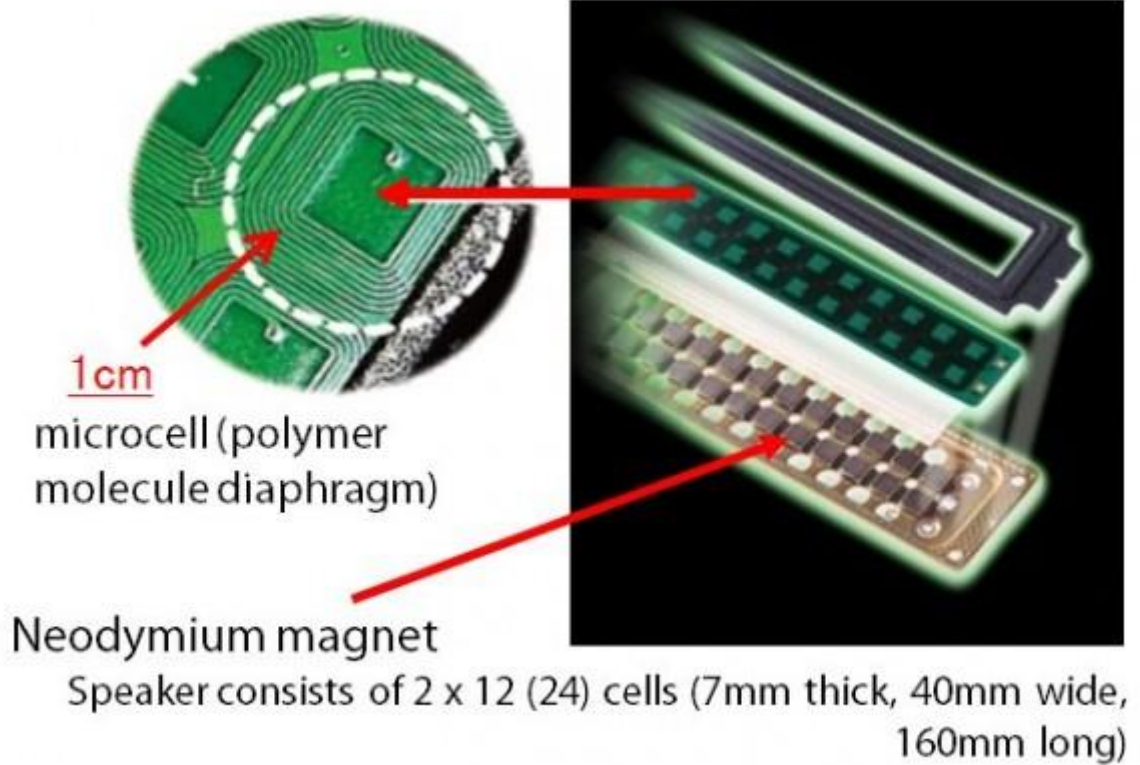


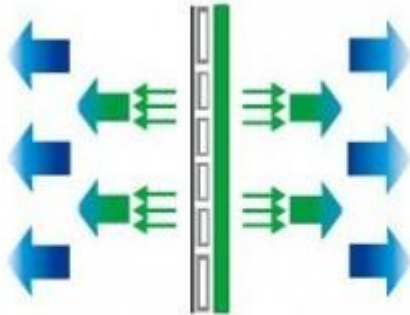
Structure of FPS Flat Panel Speakers



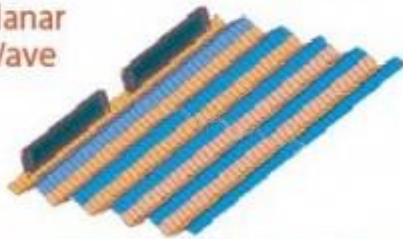
Differences between Plane and Spherical Waves

Completely different sound wave pattern

Flat Panel Speaker

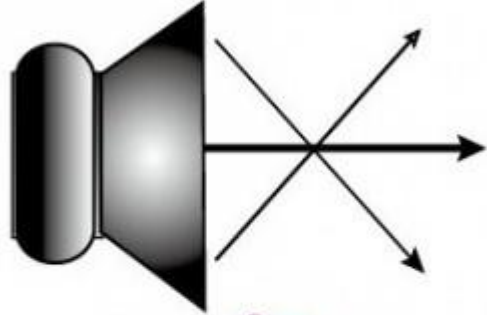


Planar Wave

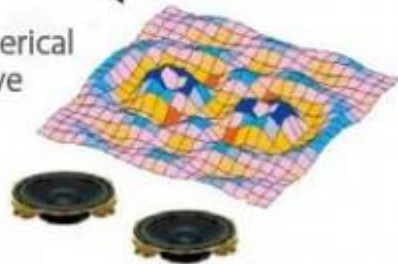


Sound goes straight from the speaker

Conventional Cone Speaker



Spherical Wave



Sound disperses into the space up and down, left and right

Flat Panel Speaker	Cone Speaker
Sound pixel by multiple voice coils. 7-15mm thickness in principle parts.	Single voice coil
Clear voice with sharp and rich sound enabled by linear wave pattern.	Nonlinear wave pattern from point sound source.
Clear mid-high range, natural and penetrating sound, strong directivity, easy-to-make optimized sound field.	Limited optimized sound field due to "spree nozzle" effect caused by radial wave pattern.
Strong in heat and moisture resistance	Problem in heat and moisture resistance
Line sound source $1/R$ (R is for distance) 1/5 with 5m distance	Point sound source $1/R^2$ (R is for distance) 1/25 with 5m distance
Operating principle	Sound Quality
Sound field band freq.	Durability
Damping by distance	Sound wave pattern

Characteristics of the Plane Wave created by FPS Flat Panel Speaker