

HYPERSOUND™



Videotel
digital

2015

HyperSound System Specifications

- HyperSound is a 2 channel amplifier with 1 or 2 emitters
- Class D amplifier
- 2 RCA inputs
- 1 RCA output for subwoofer
- Power handling is ~15 watts per Ch.
- Max SPL is 100dB at 1.5kHz at 2m
- Frequency range is 300hz to 18kHz
- Ultrasonic Carrier is 45kHz
- Ultrasonic SPL is 140dB SPL



HyperSound System Specifications

- Amplifier is CE, FCC
- Power Supply is UL/CE approved 30v DC @ 1.5amps
- Recommended speaker wire is 12 gauge.
- Recommended maximum distance is 140'
- Amp has a small input clip indicator light, green & yellow
- Minimum listening distance is 3 feet

Installation Tips

In a scenario with low ceilings 8 to 15 feet the best location for the emitters to be installed would be in the ceiling pointing down.

This would help keep the reflection contained to the listening environment.

In a scenario with high ceilings 20 and above the best approach would be a floor mount pointing up.

This would allow the reflection to succumb to natural intensity loss.

Ceiling box tips. Ensure that ceiling is a 2x2 or 2x4 grid. Anything else will require modifying the grid structure.

Amplifier cannot be installed in a Plenum ceiling.

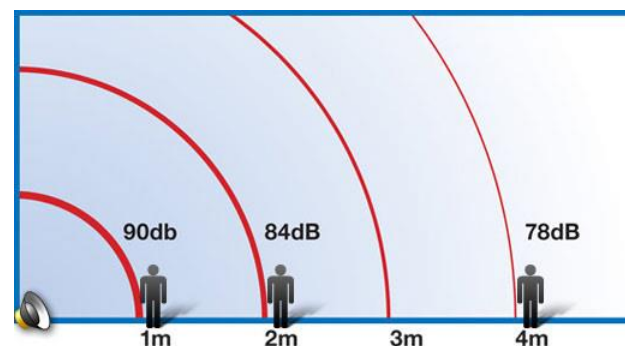
Accessories

2x2 Ceiling Box installation.



FAQ's

- Q. I heard that the Military uses HyperSound as a weapon?
- A. The military uses a device called LRAD. It is not same as HyperSound. We adhere to OSHA and FDA regulations for hearing.
- Q. How far can the sound travel?
- A. Adhering to the Inverse SQ law. Which is a 6dB drop every time you double the distance. If we are at 90dB at 1meter we need to travel 32,768 meters to reach 0dB. This of course is a perfect environment.



FAQ's

- Q. How long can I listen to HyperSound?
- A. You can stand in the beam as long as desired. There are no side effects to long term exposure to HyperSound.
- Q. What kinds of devices can I use to create audio?
- A. The amplifier will playback any kind of audio over the line in.

Audio optimization for HyperSound

If you are planning on creating content we have some recommended best practices for audio level.

Reducing 6 and 8khz by 3 to 6dB will help remove the “Brightness” from the content.

If you have a deployment with a woofer we recommend the x-over point at 500 to 600hz with a 6dB per octave slope.

