

# HYPERSOUND™



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# 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.

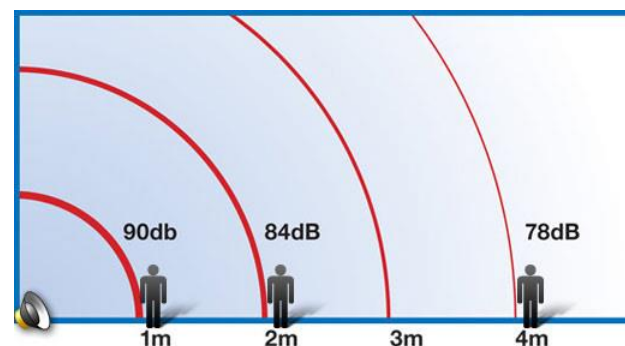
# Accessories

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.

