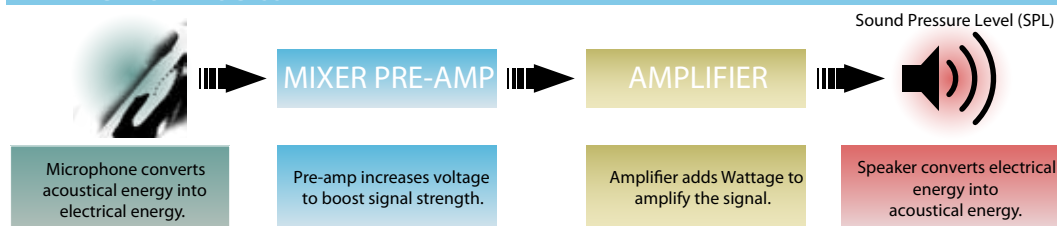


# SOUND PRESSURE LEVEL (SPL)

Sound Pressure Level (SPL) is a measure of loudness. Anchor Audio designs its sound systems to deliver the maximum SPL while minimizing weight, size, and power consumption on battery powered systems. The audio reproduction is focused on the speaker's output capability more than electric power output of the amplifiers.

How do you measure how loud something is? Many people think that comparing Wattage ratings of various sound systems is a relevant measure, but Wattage is only one element in the equation. SPL, which is measured in dB (decibels), results from a combination of 1) microphone sensitivity, 2) mixer pre-amp voltage, 3) main amplifier wattage, and 4) speaker efficiency.

## AMPLIFICATION PROCESS



The goal of an Anchor Audio sound system is to balance each stage of the amplification process in order to maximize SPL without generating distortion by overdriving system. If you are assembling a component-based system, you will have to balance the power and sensitivities of each part of the system; however, in a packaged system, sensitivities and wattage are handled by the manufacturer, and the only relevant measure is the ultimate SPL of the package.

Anchor Audio's products have optimized the balance between SPL, weight of the system, size and battery life in order to suit the needs of ~~Anchor~~ customers. products are rated based on their dB levels and the following chart will provide a general understanding of how loud the different dB ratings are in the real world.

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COMMON SOUNDS	SPL	ANCHOR AUDIO	SPL
Threshold of hearing	0 dB		
Rustling leaves	20dB		
Quiet whisper	30dB		
Normal conversation	60 dB		
Loud singing (3 feet)	75 dB		
Food blender	90 dB		
		AN-MINI	100 dB
		TourVox	100 dB
		AN-130+	103 dB
		AN-135+	103 dB
		AN-100CM+	103 dB
Power mower	107 db	AN-1000X+	107 dB
		Go Getter	109 dB
Chain saw (3 feet)	117 dB	Liberty 2	120dB
		MegaVox	119 dB
Amplified rock & roll (6 feet)	120 dB	Beacon	123dB
		Liberty 3	123dB
Jet Plane (100 feet)	130 dB	Bigfoot	126 dB

\*Decibels measured at industry standard of 1 meter (3 ft.)