# **Range Limiting Tech Note**

Don't miss a single sound.





# Description

The purpose of this tech note is to show an alternate approach to allowing more frequencies in a general area. The goal is to drastically minimize the range of the 72 MHz transmitter. This note will describe how to minimize the range without altering the electronics of the unit.

# Note: This tech note is designed for 72 MHz only. The note does not describe how many systems can be used or if each scenario will work with this method.

#### Product needed for this application:

(1) LT-800-072 Stationary FM Transmitter
(1) LA-124 90° Helical Antenna (216 MHz)
(x)\* LR-400-072 Portable Display FM Receiver's
(x)\* LA-165 Stereo Headphones

\*This number reflects the total number of participants in the room.

## Setup for the Transmitter:

Connect the supplied power supply to the LT-800 transmitter.

2 Connect the LA-124 90° Helical Antenna (216 MHz) antenna to the back of the transmitter.

Verify or select the High RF power setting on the back of the transmitter.

Turn on the transmitter and set it to channel E.

## Setup for Receiver's:

Connect the LA-165 headphones to the receiver.

2 Turn on the LR-400 receiver and set it to channel E (place it on the belt or waist).

3 Test the complete system.

4

Repeat as necessary for multiple receivers.

Note: The tested range of the transmission is approximately 50 linear ft. Outside of 50 ft. the transmission is no longer efficient causing the receivers to squelch.