

StreetSounds® Architectural Specification:

The wireless speaker system shall consist of a weatherized outdoor radio/amplifier housed in an aluminum enclosure, two 5" weatherized speakers, and a stainless-steel pole mount designed to accommodate a 4" to 6" pole.

The internal audio amplifier shall include two audio channels (stereo) capable of delivering a minimum of 35 watts per channel, 70 watts total, into an 8-ohm passive speaker. The system shall have a minimum audio frequency response of 20Hz to 16.5 kHz.

The system shall operate from an AC power source of 110 – 240 VAC and shall include a 7-foot, 3-pronged, 18GA power cable. The radio/amplifier shall consume an average of 10 watts RMS with a maximum consumption of 100 watts RMS.

The radio shall communicate in the 900 MHz US ISM band and shall utilize 10 channels within that band. The radio shall include two antennas and operate with time, space, and frequency diversity. The radio transmit power shall be +20dbm minimum. The audio transmission shall be "real-time" and have a latency of 30msec or less from audio input to audio output.

The network shall consist of one or more remote units and one master transmitter. Each remote unit shall be capable of acting as a repeater for extended range signal propagation.

The system shall include a Network Management System (NMS) capable of monitoring and controlling each unit in the network independently. The NMS shall include the ability of remotely controlling volume of each remote independently, as well as monitoring the real-time received signal level and packet loss in each remote unit. The NMS shall include a Scheduler that can control up to six zones, each with an independent ON/OFF time for each day of the week for each unit in the zone. The NMS shall also include an Alarm system for monitoring each of the critical operating parameters of the system. The NMS shall have the ability to send alarm notifications via text or email to two different locations. The NMS shall include a spectrum monitor for detecting local interference.

The system shall be the AirNetix StreetSounds® STS-170-205J system.