

# Long-Range Wireless PA System



The Wireless PA (Public Address) System is a radio receiver that enables you to use a base station intercom or mobile 2-way radio to deliver voice messages directly to an attached PA speaker up to a mile or more away.

You'll use this solution anywhere hardwired installation is simply impossible, too expensive, or the installation is only temporary. It reduces installation costs that would otherwise be incurred by using a wired PA system. The Wireless PA receiver and speaker are designed for quick setup and usage to deliver your message to a large campus, property, or building.

The system uses license-free MURS frequencies, or is available in licensed VHF or UHF frequencies. Special codes can be implemented that restrict access to the Wireless PA System to only those radios that have a proper code programmed. This ensures that only authorized people have access to the PA system.

You can use a dedicated communications channel between the Wireless PA System and another one between the radios or intercoms that are

contacting it. That enables you to use your radios or intercoms for normal communications without broadcasting over the PA system.

To widen the audio coverage area, you can install up to two loudspeakers on a single Wireless PA receiver. A single speaker will cover an audio transmission distance of up to 100 feet. Each speaker comes with 25 feet of cable.

When two-way radios are used nearby a Wireless PA speaker, feedback may result that can render the system unusable. For those applications the receiver can be programmed to record the incoming messages and then play them back over the speaker when the talk button is released on the two-way radio. Recorded messages are limited to a maximum of 20 seconds.

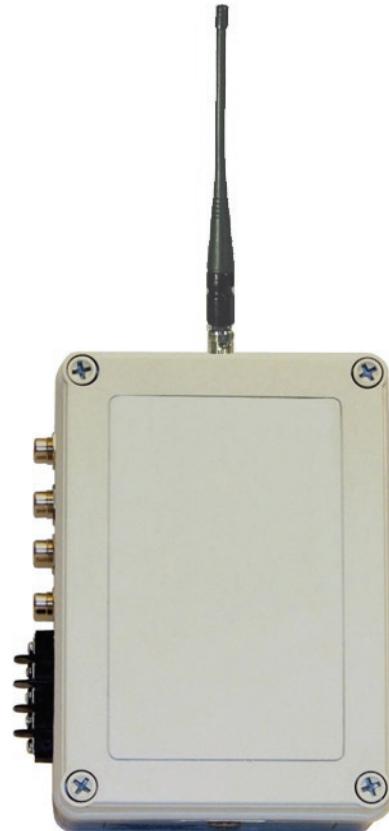
The Wireless PA System can also receive local NOAA weather radio emergency broadcasts from the National Weather Service and then play them over the loudspeaker. This will keep everyone aware of severe weather approaching.

The Wireless PA receiver comes with an AC to DC power converter. It also comes equipped with an emergency backup battery that can temporarily power the radio if primary power is interrupted. A solar panel kit can be used to power the MURS Wireless PA receiver without the need for a power supply in locations where AC power is not available. The receiver can be configured to maximize the battery life of the solar power system.

An available weatherproof, fiberglass reinforced polyester enclosure is available to house the Wireless PA receiver for outdoor applications.

If you have an existing wired PA system and want to send messages from a two-way radio to it, there is also a Wireless PA Interface receiver available. It enables someone on a two-way radio or base station intercom to send an

announcement to all your wired PA speakers. The Wireless PA Interface connects to the PA system either via RCA phono cables if it is located within six feet of the wireless PA system, or via the 600 ohm balanced MIC input on the PA system if it is farther.



## Specifications

- Programmable frequencies in the 150-165MHz frequency range for VHF and the 450-470MHz range for UHF.
- Industrial grade receiver is small, lightweight and housed in a rugged, sealed weather-resistant housing (optional housing recommended for full outdoor use).
- One receiver can support up to 2 separate PA horn speakers in parallel for additional audio coverage
- Field programmable Privacy Codes (digital and analog) - Choose from 153 possible codes for added PA security access
- Field programmable "Paging Codes" - Select 1 of 9 different "paging codes" for added PA security access



- Each model can also be PC programmed to a “custom” frequency, a privacy code and paging code using programming software
- Field programmable to 5 different Volume Settings - Allows “best-fit” for a variety of applications
- Nine Auto Speaker Reset Timer Selections (5 seconds up to 4 minutes) - After receiver is successfully paged a pre-set timer will begin to count down, a valid radio signal must be received before the receiver resets
- Unit is powered via 110Volts AC via the supplied wall transformer.
- Rechargeable back-up battery automatically provides power to the receiver in case of power failure. Enables an additional 8 hours of communication over the PA speaker, at a reduced audio output level.
- System allows for multiple paging zones so portable radio can access more than one PA speaker/zone
- The indoor or outdoor PA horn speaker delivers 95dB of audio output @50 feet, so even in noisy environments, you can get your message out loud and clear
- Operating Temperature is  $-22^{\circ}$  F to  $+140^{\circ}$  F
- Receiver sensitivity  $.20\mu\text{V}$  @12dB SINAD
- Frequency Response – 300 to 3000 Hz de-emphasized
- Signaling – CTCSS and DCS decode, 2-Tone Decode and Optional DTMF (Touch-Tone) Decode
- 1 year warranty, 90 days on accessories.
- Designed, manufactured, and serviced in the USA

These products are available at  
[www.IntercomsOnline.com](http://www.IntercomsOnline.com)