

# Wireless Audio Distribution Product Type Brochure

SOUNDFIELD FM  
PORTABLE FM  
STATIONARY FM  
STATIONARY IR  
WIRELESS AUDIO DISTRIBUTION  
DISCUSSION  
DIGITAL CONFERENCING  
DIGITAL IR

*Don't miss a single sound.*

**Listen**<sup>®</sup>  
[www.listentech.com](http://www.listentech.com)

ASSISTIVE LISTENING • CONFERENCING • TOUR GROUP • SOUNDFIELD • LANGUAGE INTERPRETATION



## **Don't miss a single sound. Listen.**

When wires aren't an option, Listen's line of Wireless Audio Distribution products offer you a way to deliver sound where you need it. Multiple channel transmitters and receivers give you the flexibility you need to provide outstanding audio quality virtually anywhere.

Listen's line of Wireless Audio Distribution products deliver a carefully tuned system of products that make the process of specifying, ordering, installing and using the system simple and straight forward. A Listen FM system functions like a low power radio station that broadcasts sound to receivers within range of the transmitters. This system is a simple way to deliver interference-free, clear sound, helping to dramatically enhance each individual's personal experience.

**Don't miss a single sound. Listen.**

### **Downtown Districts**

More and more downtown districts are being revitalized. In many cases the expense and inconvenience of digging up the streets makes a wired solution difficult, or not a solution at all. Using Listen's wireless technology you can provide music, make announcements, and generally welcome patrons back into the community.

### **Overflow Areas**



Imagine having your employees show up for your company's yearly conference, where major announcements are to be made, only to find that all the seats in the conference room have been filled. A Listen system allows you to provide an overflow area to make sure everyone in your organization hears your message.

### **Events**



Special events provide a unique challenge in that they are short term, but the ability to hear performers, celebrities, announcers or music is critical to the success of the event. Often, because they are short term, there is no infrastructure for wires and cables. Listen's Wireless Audio Distribution Systems will make event organizers look like stars as they save time and money delivering quality sound to event patrons.

### **Outdoor Venues**



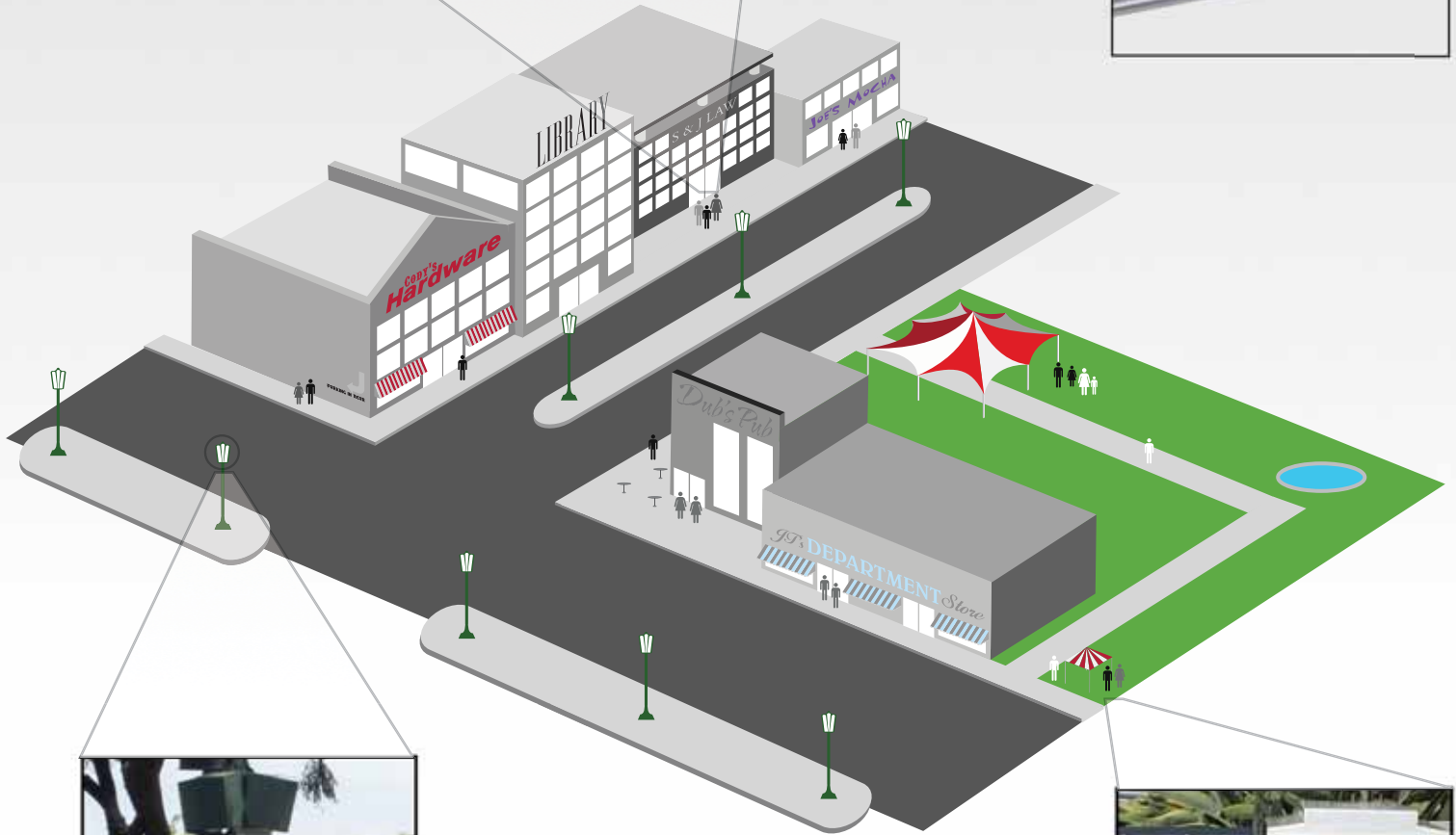
Listen offers solutions for all types of outdoor venues! Whether it is sending audio to your hospitality tent, or providing play-by-play to concession areas, Listen makes distributing audio easy and cost effective.

# Listen Wireless Audio Distribution System

Revitalize and enrich the experience of your downtown district patrons with Listen's Wireless Audio Distribution System. Playing background music enhances the charm of the experience of strolling through your downtown district.



Supply high quality sound anywhere, for any occasion. Listen's LR-600 Wireless FM Receiver/Speaker can be used to deliver your message or music to temporary overflow areas for special events.



Deliver clear, interference-free sound without wires. Listen's Wireless Audio Distribution System gives downtown districts a year-round outdoor mechanism to broadcast high quality sound to guests.

Listen's LT-800 Stationary Transmitter can interface with an existing sound system, a mixer, or directly to a microphone delivering outstanding audio quality to wireless receivers/speakers. It is rack mountable, can sit on a shelf, or be attached to any surface. The end result – your audience can hear and enjoy their experience.



## Highlights

- Amplification anywhere without wires.
- 57-Channels-you'll always find interference-free channels.
- Compatible for integration with other systems.
- High quality audio delivered in a variety of locations.
- Limited Lifetime Warranty with hassle-free support.
- Look & Listen LCD Display shows channel, battery status, signal strength, lock and programming information.

# LT-800 Stationary FM Transmitter

Thanks to its outstanding audio quality, the Listen LT-800 Stationary Transmitter can be used in a variety of applications. The LT-800 can be connected to your main audio system to broadcast a high quality audio signal to stationary receivers, or wireless speaker/receivers. The end result– your audience can hear and understand the presentation better because of improved speaker placement or because they have their own belt pack and earphone. The signature Look&Listen™ LCD shows channel, lock and programming information. It has multiple audio inputs with level control and mix level control. It also includes a test tone for tuning. There are mounting options for racks and antenna.

## Highlights

- Super Quiet™ Technology provides superior audio quality.
- 57 Channels – you'll always find interference-free channels.
- 80dB Signal-to-Noise Ratio – best in class noise performance ensures guests hear the sound and not the noise.
- Long transmission range ensures coverage for the entire venue.
- Advanced audio processing (can be deactivated) ensures audio levels are consistent to users.
- Compatible with other manufacturers including Phonak.
- Limited Lifetime Warranty with hassle-free support.



- 1. Audio Section** The input level of inputs 1 and 2 are adjusted by the INPUT control and are indicated on the first two VU meters. Final transmit level is adjusted with the MIX LEVEL control. The CONTOUR control boosts or cuts audio above 5 kHz. Listen's exclusive technology delivers low noise performance. A test tone is available to aid in set up.
- 2. Transmit Section** Use the UP and DOWN buttons to select the transmission channel. The LCD conveniently shows the selected channel, transmitter output power, lock and programming status.
- 3. Monitor Section** You can listen to the transmitted audio using the monitor jack and volume control.
- 4. RF Section** A unit mounted antenna can be directly connected to the RF OUTPUT jack or you can use a remote antenna. RF power can be selected using the switch for one-quarter, half or full power.
- 5. Audio Output Section** The dual, line level phono connectors provide an output consisting of a mix of inputs 1 and 2.
- 6. Audio Input Section** Connect your audio sources to inputs 1 and/or 2. Input 1 accepts a mono 3-pin XLR or phone connector with a balanced selectable mic, phantom mic or line level audio. Input 2 accepts stereo phono connectors and is unbalanced with selectable input levels of -10 and +10dBu.

## Key Specifications

- Coverage: Line of site, 1,500 ft (457 m) / 3,000 ft (914 m), 72/216 MHz.
- Number of simultaneous channels: 6/3, 72/216 MHz.
- System audio performance: 50Hz - 15KHz frequency response, >80dB SNR and <2% THD.

## Configurations

- LT-800-072 - 72 MHz
- LT-800-216 - 216 MHz

## Accessories



- The LA-326 Universal Rack Mounting Kit can rack mount one or two LT-800 Stationary FM Transmitters (includes security cover).

Listen's LR-100 Stationary Receiver / Power Amplifier is a stationary auditory assistance receiver with a built-in power amplifier. When used with a Listen transmitter, the LR-100 can deliver high quality audio for use in a variety of locations and applications. This unit has Listen's signature Look&Listen™ LCD Display showing channel, lock, and battery level. A security cover protects auxiliary and receiver volume and trim controls. It has an adjustable squelch control, and balanced or unbalanced speaker wire output options. Multiple input options give this unit great flexibility. It's powered by a 16VAC/1000mA power input or 12 VDC battery. Add an antenna for longer range applications, or use with a weather proof powered speaker for outdoor applications.

## Highlights

- Super Quiet™ Technology provides superior audio quality.
- Look&Listen™ LCD.
- 57-programmable channels.
- Adjustable squelch control.
- Selectable audio output.
- Multiple input and output options.



1. **Audio Section** Audio can be adjusted for volume and quality via trim pots and switches. Listen exclusive technology delivers low noise performance.
2. **Receive Section** Use the UP and DOWN buttons to select the transmission channel. The LCD conveniently shows the selected channel, transmitter output power, lock and programming status.
3. **Monitor Section** You can listen to the transmitted audio using the monitor jack and volume control.
4. **Speaker Volume** Adjustable volume control for speaker output.
5. **Audio Output Section** Offers three different output options: unbalanced/phono, balanced male XLR and Phoenix connector for speaker.
6. **Audio Input Section** Three different audio inputs: RF signal through the antenna, unbalanced/phono or balanced/female XLR 1/4 inch combo connector.
7. **Power** Connect a power supply (included) to the back of the unit.

## Key Specifications

- Receiver range from LT-800 Antenna: Line of site, 1,500 ft (457 m) / 3,000 ft (914 m), 72/216 MHz.
- Number of simultaneous channels: 6/3, 72/216 MHz.
- System audio performance: 63 Hz - 15 KHz frequency response, >80dB SNR and <2% THD.
- Speaker Output: 15/10 watts (peak/RMS) with 4 ohm load.

## Configurations

- LR-100-072 - 72 MHz
- LR-100-216 - 216 MHz

## Accessories



- The LA-326 Universal Rack Mounting Kit can rack mount one or two LR-100 Stationary FM Receivers (includes security cover).

# FM Receivers

Amplification anywhere without wires! All-in-one wireless receiver, 2-channel 10 Watts power amplifier. Place up to 1,500 ft (457 m) or 3,000 ft (914 m) 72/216 MHz away from a Listen stationary transmitter to receive and amplify the transmission audio. This unit is powered by AA batteries (alkaline or NiMH rechargeables), or 15VAC power supply or 12 VDC, for 15/10 Watts continuous power. It has unbalanced auxiliary input and output ports. Listen's signature Look&Listen™ LCD display shows channel, lock, and battery level. Comes with adjustable mounting bracket/handle.

## Highlights

- *Super Quiet™ Technology provides superior audio quality.*
- *Easy to use.*
- *Multiple Channels – you'll always find interference-free channels.*
- *80dB Signal-to-Noise Ratio – best in class noise performance ensures guests hear the sound and not the noise.*
- *Look&Listen™ LCD display shows channel, battery status, signal strength, lock, and programming information.*
- *SEEK button automatically finds a channel.*
- *Limited Lifetime Warranty with hassle-free support.*
- *Unbalanced aux input and output.*
- *Adjustable 3-band equalizer.*



1. **Channel Selector/Volume** Change channel from the top or rear. Adjust volume from the top.
2. **Charging/Power Port** Power unit and/or charge NiMH batteries.
3. **Adjustable 3-Band Equalizer** Fine-tune audio output.
4. **Input/Output Ports** Unbalanced/auxiliary phono/input/output ports.
5. **LCD Display** Displays channel selection, battery level, signal strength, channel lock and program features.
6. **Antenna** Use either the internal or optional external antenna.
7. **Battery Compartment** Unit can be powered by (8) alkaline batteries or NiMH rechargeable batteries.
8. **Adjustable Handle/Mounting Bracket** For mounting on wall, ceiling or microphone stand.
9. **Speaker** 15/10 Watts (peak/RMS) 4 ohm 2-way speaker.

## Key Specifications

- Receiver range from LT-800: Line of site, 1,500 ft (457 m) or 3,000 ft (914 m) 72/216 MHz.
- Number of simultaneous channels: 6/3, 72/216 MHz.
- System audio performance: 50-15KHz frequency response, >80dB SNR and <2% THD.

## Configurations

- LR-600-072 – 72 MHz
- LR-600-216 – 216 MHz

## Accessories

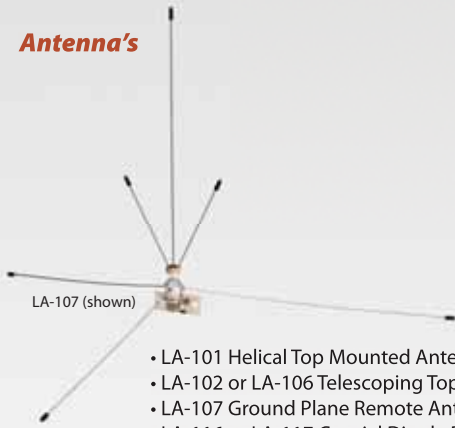
Accessories for Listen Receivers can be found on the Wireless Audio Distribution Accessories page 6.

# Wireless Audio Distribution Accessories and Systems

## Accessories

Listen offers a range of options for your Wireless Audio Distribution Accessory needs. Select from Antennas, Mounting Options, Connectors/Cables, Power Supplies, Speakers and Miscellaneous Combiners all providing excellent performance for clear interference-free sound.

### Antenna's



LA-107 (shown)

- LA-101 Helical Top Mounted Antenna
- LA-102 or LA-106 Telescoping Top Mounted Antenna
- LA-107 Ground Plane Remote Antenna
- LA-116 or LA-117 Coaxial Dipole Remote Antenna
- LA-122 Universal Antenna Kit
- LA-123 or LA-124 90 Degree Helical Antenna
- LA-125 or LA-126 Antenna Kit for Rack Mount

### Expansion Speaker



LA-316 (shown)

- LA-316 Expansion Speaker

## Wireless Audio Distribution Systems

Listen's Wireless Audio Distribution System is ideal for events that don't have existing hard-wire infrastructure available for audio distribution. This system is a favorite for outdoor applications, such as downtown events, festivals, parades, etc. and will save users significant time, money, and hassle to deliver sound to their events. The system can be integrated with other systems or stand alone.



Product Description	System Part Number
	LS-15
LT-800 Stationary FM Transmitter	1
LA-326 Rack Mount Kit	1
LR-100 Stationary FM Receiver/Amplifier	1
LA-107 Ground Plan Antenna	2

### Example:

System Designator  
 |  
 Listen System — **LS-15-216**  
 |  
 Frequency

Each Wireless Audio Distribution System delivers Listen's commitment to providing you with a customizable solution that is simple to specify, install, and use. You will enjoy outstanding performance with exceptional support from the Listen team.

**Don't miss a single sound. Listen.**

## Frequency Chart

72MHz Range:				216MHz Range			
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	72.025	20	72.975	1A	216.0125	2K	216.5250
2	72.075	33	74.625	2A	216.0250	3K	216.5375
A	72.100	34	74.675	3A	216.0375	1L	216.5625
3	72.125	I	74.700	1B	216.0625	2L	216.5750
4	72.175	35	74.725	2B	216.0750	3L	216.5875
K	72.200	36	74.775	3B	216.0875	1M	216.6125
5	72.225	37	75.225	1C	216.1125	2M	216.6250
6	72.275	38	75.275	2C	216.1250	3M	216.6375
B	72.300	J	75.300	3C	216.1375	1N	216.6625
7	72.325	39	75.325	1D	216.1625	2N	216.6750
8	72.375	40	75.375	2D	216.1750	3N	216.6875
N	72.400	R	75.400	3D	216.1875	1P	216.7125
9	72.425	21	75.425	1E	216.2125	2P	216.7250
10	72.475	22	75.475	2E	216.2250	3P	216.7375
C	72.500	F	75.500	3E	216.2375	1R	216.7625
11	72.525	23	75.525	1F	216.2625	2R	216.7750
12	72.575	24	75.575	2F	216.2750	3R	216.7875
O	72.600	S	75.600	3F	216.2875	1S	216.8125
13	72.625	25	75.625	1G	216.3125	2S	216.8250
14	72.675	26	75.675	2G	216.3250	3S	216.8375
D	72.700	G	75.700	3G	216.3375	1T	216.8625
15	72.725	27	75.725	1H	216.3625	2T	216.8750
16	72.775	28	75.775	2H	216.3750	3T	216.8875
P	72.800	T	75.800	3H	216.3875	1U	216.9125
17	72.825	29	75.825	1J	216.4125	2U	216.9250
18	72.875	30	75.875	2J	216.4250	3U	216.9375
E	72.900	H	75.900	3J	216.4375	1V	216.9625
19	72.925	31	75.925	1K	216.5125	2V	216.9750
		32	75.975			3V	216.9875

The highlighted rows are wide band channels. The Non-highlighted rows (narrow band) will only be seen when L/O is disabled.



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