

Soundfield FM *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[®]
www.listentech.com

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




Don't miss a single sound. Listen.

Soundfield applications are areas where audio needs to be amplified for people to hear better. This can be in a classroom, meeting room, training center or theatre. Studies have shown that by boosting the audio levels of normal voices, you not only increase retention by as much as 30%, but also reduce potential for voice strain and fatigue. Wherever a large PA system is impractical, a Soundfield FM solution is likely the answer.

Listen's line of Soundfield FM products deliver a carefully tuned system of components that makes the process of specifying, ordering 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 an easy way to deliver interference-free sound to groups of all sizes ensuring that all participants hear the message clearly.

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Classrooms



Listen's easy to use and ergonomically designed equipment can fill a classroom with crisp clear sound. This allows the teacher to convey information without voice strain or fatigue and ensure that each student has the opportunity to hear the message.

Employee Training



Your most vital assets are your employees and their contribution to your organization. For your employees to be as productive and efficient as possible their training is critical. By providing your training center with a Soundfield system, you can ensure that your staff understands and processes the information more effectively, allowing them to contribute more to your organization.

Meeting Rooms



When you assemble your company for monthly meetings, you want to make sure that it runs smoothly. An important part of this efficiency is that each participant can hear what is being presented. A Listen system will amplify your speaker's voice above background noise giving you the full confidence of your employees.

Overflow Areas



Be prepared in those instances when you call an impromptu staff meeting and not everyone can fit into your conference room. A Listen system allows you to provide an overflow area to make sure your entire staff can hear what is being presented.

Listen Soundfield FM System



Studies show that students learn up to 30% more in classes with audio amplification. This means that the classroom experience can be improved for both teachers and students with soundfield reinforcement. Vocal strain is eased for teachers and students can hear better. Overall, the learning experience is improved.



Effective instruction doesn't have to be impaired by a noisy environment. Soundfields allow instructors to direct their classes with a normal speaking level and students receive valuable instruction clearly.



Highlights

- *80db Signal-to-Noise Ratio – best in class noise performance ensures your audience hears the sound and not the noise.*
- *Improved learning retention and reduced instructor voice fatigue.*
- *High quality audio delivered in any environment.*
- *Limited Lifetime Warranty with hassle-free support.*

Soundfield systems can be used for large audiences as well. When used with a Listen transmitter, the LR-100 receiver delivers the wireless transmission to your existing sound system speakers in an auditorium. Listen's standard 57 channels ensures you'll always find interference-free channels.

LT-700 Portable Transmitter

The LT-700 Portable Transmitter will broadcast your voice to everyone in the audience, without having to carry a microphone or be plugged into the wall. Excellent for factory tours, outdoor events, wireless microphone applications, classroom, training, or personal use -- anywhere you need to amplify sound but don't have (or want) an installed sound system. The signature Look&Listen™ LCD shows channel, lock and battery level. It takes AA batteries (alkaline or NiMH rechargeable). SmartCharge™ capabilities prevent overcharging of batteries. The antenna is in the mic cord and has an adjustable mic sensitivity switch.

Highlights

- *Super Quiet™ Technology provides superior audio quality.*
- *Look&Listen™ LCD shows channel, battery status, and programming information.*
- *Mic or line level inputs.*
- *57-Channel selection.*
- *80dB Signal-to-Noise Ratio – best in class noise performance ensures guests hear the sound and not the noise.*
- *Standard Alkaline or NiMH batteries.*
- *Mute button.*
- *Limited Lifetime Warranty with hassle-free support.*



1. **Mute Switch** Easy access mute/talk switch.
2. **Microphone Jack** 3.5mm mic jack for microphone or line level audio source.
3. **Multi-function LED** Indicates when unit is muted, batteries are low, and charging status.
4. **LCD Display** Displays channel selection, battery level, and channel lock for programming.
5. **Channel Section** Allows you to manually change the broadcast channel.
6. **Power** Turns the unit On/Off.
7. **Charging Port/Contacts** Used with charging cases or power supply to charge NiMH batteries within the unit.
8. **Door Locks** Manually lock battery compartment door.
9. **Battery Compartment** Install alkaline or NiMH batteries to operate unit.

Key Specifications

- Range: Line of site, up to 150 feet.
- Number of simultaneous channels: 6/3, 72/216MHz.
- Audio performance: 63 Hz-15KHz frequency response, >80dB SNR and <2% THD.

Configurations

- LT-700-072 - 72MHz
- LT-700-216 - 216MHz

Accessories

Accessories for the LT-700 can be found on the Soundfield FM Accessories page 6.

Amplification anywhere without wires! All-in-one wireless receiver, 2-channel 10 Watt power amplifier. Place up to 150 feet away from a Listen portable 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 Watt continuous power. It has unbalanced auxiliary input and output ports. Listen's signature Listen's LR-600 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 watt (peak/RMS) 4 ohm 2-way speaker.

Key Specifications

- Receiver range from LT-700: Line of site, 150 ft (45.7 m), 72/216MHz.
- Number of simultaneous channels: 6/3, 72/216MHz.
- 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 Soundfield FM Accessories page 6.

FM Receivers

Listen's LR-100 Stationary Receiver/Power Amplifier is a stationary 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 – most commonly soundfields. 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.

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-700: Line of site, 150 ft (45.7 m), 72/216MHz.
- Number of simultaneous channels: 6/3, 72/216MHz.
- System audio performance: 63 Hz - 15KHz frequency response, >80dB SNR and <2% THD.
- Speaker Output: 15/10 wats (peak/RMS) with 4 ohm load.

Configurations

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

Accessories



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

Soundfield FM Accessories and Systems

Accessories

Listen offers a range of options for your Soundfield FM Accessory needs. Select from Antennas, Mounting Options, Connectors/Cables, Batteries/Power Supplies, Charging/Carrying Cases, Speakers, Microphones and Miscellaneous Combiners all providing excellent performance for clear interference-free sound.

Microphones



LA-261

- LA-261 Lavalier Microphone
- LA-262 Over-the-Head Microphone
- LA-270 Noise Cancelling Microphone
- LA-272 Over-the-Head Microphone with Earphone
- LA-274 Hand Held Microphone
- LA-276 Collar Microphone
- LA-277 Conference Microphone
- LA-278 Behind-the-Head Microphone
- LA-279 Over-the-Ear Microphone

Antenna's



LA-123

- 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

- LA-316 Expansion Speaker

Soundfield FM Systems

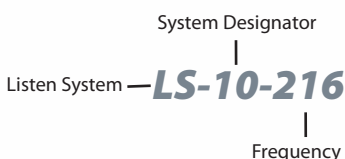
Listen's Soundfield FM systems are ideal for schools, houses of worship, training facilities, outdoor venues, bus tours, etc. The LS-10 is a versatile system for multiple audio sources. It can be incorporated into an existing sound system or used as a stand-alone system and can accommodate multiple audio sources. The LS-60 Receiver/Speaker Soundfield FM System is a great solution for classrooms, meeting rooms or other small venues. This easy to set up system is portable for a quick soundfield solution in any environment. Wireless speaker/receiver and portable transmitter kit are included. Expansion speakers are also available.



LS-10

Product Description	System Part Number		
	LS-09	LS-10	LS-60
LT-700 Portable FM Transmitter	1	1	1
LA-261 Lavalier Microphone		1	1
LA-276 Collar Microphone	1		
LR-100 Stationary FM Receiver/Power Amplifier		1	
LR-600 Wireless FM Receiver/Speaker	1		1
LA-202 Power/Charging Supply		1	1
LA-330 Portable Unit Lanyard		1	1
LA-316 Expansion Speaker		2	
LA-362 Rechargeable AA NiMH Batteries		1	1

Example:



Each Soundfield FM 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.

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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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Printed in the United States of America

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