

Portable 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 INTERPRETING



Don't miss a single sound. Listen.

Listen Technologies Corporation believes your audience is there to learn or to be entertained, and that they ought to enjoy a personalized, enriching auditory experience. Many environments present challenges for the listener to clearly hear, appreciate, and understand what is being communicated. Listen is committed to ensuring that our products provide the auditory experience your audience deserves.

Listen's line of portable FM products deliver on this commitment by providing a carefully tuned system of products 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. The Portable FM system is a great way to deliver interference-free, clear sound directly to each individual, dramatically enhancing their individual experience and ensuring that they get the full experience they desired.

Don't miss a single sound. Listen.

Tour Group

Have you ever been on a tour and not been able to hear the information being provided by the tour guide? When you are on a tour you are there to not only see what is being shown, but also to hear what is being said. Unfortunately, sometimes the environment itself poses hearing difficulties. Listen solve this problem by ensuring visitors get a clear and interference-free listening experience.



Language Interpretation



Imagine being in a foreign country to do business, but unable to understand what your business partners are saying. A portable FM system delivers high quality sound to every listener in your group, allowing your interpreter to facilitate communication in even the loudest of environments.

Press Conferences



A press conference can be an atmosphere charged with excitement and commotion. When news is being reported, you want to be sure you are hearing the message clearly and without disruption. Your ability to do that relies on your ability to understand what you are hearing. A Listen system brings the information directly to your ears as if the speaker is giving you the inside scoop on the news.

Employee Training



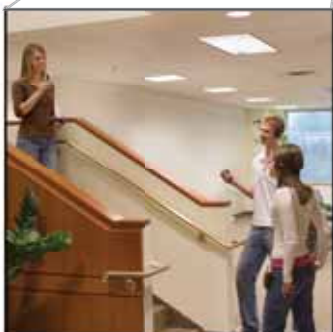
When you are trying to learn, hearing the message is imperative. A Listen system can deliver an instructor's voice directly to the student's ears providing them with the ability to understand and process the information more effectively. The end result is more effective training and instructors who are less fatigued because they don't have to speak loudly.

Listen Portable FM System

Provide your guests with a thorough visit of your operations. Placing Listen's LR-600 Receiver (72/216MHz only) in strategic areas allows your guests to fully tour your facility, even in areas where access is limited or in overflow areas.



Deliver your message clearly, even in the noisiest environment! Listen's hands-free equipment allows you to deliver key information clearly and safely while moving around your operation.



Listen's wide range of channels means you can use one or more systems in one area without interference. Conduct multiple simultaneous tours, the LCD Display makes it easy to tune to the correct audio presentation.



Customize tours for your international guests by providing a system for delivering simultaneous language interpretation. Your message will be heard clearly and in your guest's own language.

Highlights

- 57 Channels (72/216MHz), 17 Channels (863MHz) – you'll always find interference-free channels.
- Conduct multiple simultaneous tours and offer language interpretation.
- Minimal interruptions to others not on the tour.
- Limited Lifetime Warranty with hassle-free support.
- Look&Listen™ LCD display shows channel, battery status, signal strength, lock, and programming information.
- Uses standard AA alkaline batteries or AA NiMH rechargeable batteries.
- Easy to use and manage inventory.

LT-700 Portable Transmitter

The LT-700 Portable Transmitter will broadcast your interpreter or tour guide's 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 the unit 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 (72/216MHz).
- 17-Channel selection (863MHz).
- Standard Alkaline or NiMH batteries.
- Mute button.
- Limited Lifetime Warranty with hassle-free support.



Key Specifications

- Range: Line of site, up to 150 ft. (45.7 m)
72/216 MHz, 200 ft. (60.9 m) 863 MHz.
- Number of simultaneous channels: 6/3/8
72/216/863MHz.
- Audio performance: 63 Hz-15KHz frequency response, >80dB SNR and <2% THD.

Configurations

- LT-700-072 - 72 MHz
- LT-700-216 - 216 MHz
- LT-700-863 - 863 MHz

Accessories

Accessories for the LT-700 can be found on the Portable Product Accessories page 6.

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.
10. **Antenna** Articulating and flexible for easy storage (863MHz only).

Listen offers two types of portable FM receivers that allow you to customize your system to your specific needs. Both receivers offer multiple channels for outstanding audio performance backed by limited lifetime warranty. The LR-400 and LR-500 offer Listen's Look&Listen™ LCD display so you'll see what's going on. The LR-500 offers channel selection buttons for the user and programmability for multiple channel applications like language interpretation. In this case, you can program the LR-500 to only display active channels limiting the number of channels your guests have to seek through.

Highlights

- Super Quiet™ Technology provides superior audio quality.
- Easy to use.
- Multiple Channels – you'll always find interference-free channels.
- 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.



1. **Power/Volume** On/off and volume control.
2. **Earphone Jack** 3.5 mm jack accepts either mono or stereo headsets.
3. **Multi-function LED** Indicates power or low battery and charging status.
4. **LCD Display** Displays channel selection, battery level, signal strength, channel lock and program features (LR-500 only).
5. **Channel Section** The seek button allows you to scan for the broadcasting channel, while the up/down button allows you to manually change the receive channel. Buttons are located inside the cover on the LR-400.
6. **Charging Port/Contacts** Used with charging cases or power supply to charge NiMH batteries within the unit.
7. **Door Locks** Manually lock battery compartment door.
8. **Battery Compartment** Install alkaline or NiMH batteries to operate unit.
9. **Antenna** Articulating and flexible for easy storage (863MHz only).

Key Specifications

- Receiver range from LT-700: Line of site, 150 ft. (45.7 m) 72/216 MHz, 200 ft. (60.9 m) 863 MHz.
- Number of simultaneous channels: 6/3/8 72/216/863MHz.
- System audio performance: 50-15KHz 72/863 MHz 50-10 KHz 216 MHz frequency response, >80dB SNR and <2% THD.

Configurations

- LR-400-072 – 72 MHz
- LR-400-216 – 216 MHz
- LR-400-863 - 863 MHz
- LR-500-072 – 72 MHz
- LR-500-216 – 216 MHz
- LR-500-863 - 863 MHz

Accessories

Accessories for Listen Receivers can be found on the Portable Product Accessories page 6.

FM Receivers

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 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

NOTE: Not available in 863MHz.

Accessories

Accessories for Listen Receivers can be found on the Portable Product Accessories page 6.

Portable Product Accessories and Systems

Accessories

Listen provides a variety of accessories to meet your Portable FM needs. Choose from Connectors/Cables, Batteries/Power Supplies, Charging/Carrying Cases, Earphones/Speakers, and Microphones all providing outstanding performance for crisp, clear sound.

Microphones



- 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

FM Product Cases



- LA-311 16-Unit Portable Charging/Carrying Case
- LA-313 16-Unit Portable Carrying Case
- LA-317 4-Unit Portable Charging/Carrying Case
- LA-318 4-Unit Portable Carrying Case
- LA-320 Configurable Carrying Case
- LA-321 8-Unit Portable Charging/Carrying Case
- LA-322 8-Unit Portable Carrying Case
- LA-323 4-Unit Portable Charging/Carrying Case w/Removable Lid
- LA-324 8-Unit Portable Charging/Carrying Case w/Removable Lid
- LA-325 16-Unit Portable Charging/Carrying Case w/Removable Lid

Earphones



- LA-161 Single Ear Bud
- LA-162 Stereo Ear Buds
- LA-164 Earspeaker
- LA-165 Stereo Headphones
- LA-166 Neck Loop
- LA-170 Behind-the-Head Stereo Headphones

Portable FM Systems

Listen's Portable FM Systems are designed for use by an individual or multiple individuals. The Personal FM System is a great system to take to school, a house of worship, training facility, etc. The multi-person systems are ideal for organizations that want to ensure that their visitors hear and understand every word. These systems can be used indoors or outdoors and are a terrific mobile solution for language interpretation.



Product Description	System Part Number					
	LS-05	LS-06	LS-07	LS-08	LS-13	LS-14
LT-700 Portable FM Display Transmitter	1	1	1	1	1	1
LA-261 Lavalier Microphone	1					
LA-278 Behind-the-Head Microphone		1	1	1	1	1
LR-400 Portable Digital Display FM Receiver	1	7	15		30	120
LR-500 Portable Programmable Digital Display FM Receiver				15		
LA-164 Ear Speaker	1	7	15	15	30	120
LA-306 Soft Case	1					
LA-322 8-Unit Portable FM Products Carrying Case		1				
LA-313 16-Unit Portable FM Products Carrying Case			1			
LA-311 16-Unit Portable FM Products Charging/Carrying Case				1	2	8
LA-361 High Capacity AA Alkaline Batteries (2)	2	8	16			
LA-362 Rechargeable AA NiMH Batteries (2)				16	31	121

Example:

System Designator
 |
 Listen System — **LS-05-216**
 |
 Frequency

Each Portable 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.
Don't miss a single sound. Listen.

Frequency Chart

72 MHz Range				216 MHz Range				863 MHz Range	
Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency	Channel	Frequency
1	72.025	20	72.975	1A	216.0125	2K	216.5250	01	863.050
2	72.075	33	74.625	2A	216.0250	3K	216.5375	02	863.200
A	72.100	34	74.675	3A	216.0375	1L	216.5625	03	863.400
3	72.125	I	74.700	1B	216.0625	2L	216.5750	04	863.550
4	72.175	35	74.725	2B	216.0750	3L	216.5875	05	863.750
K	72.200	36	74.775	3B	216.0875	1M	216.6125	06	863.900
5	72.225	37	75.225	1C	216.1125	2M	216.6250	07	864.100
6	72.275	38	75.275	2C	216.1250	3M	216.6375	08	864.250
B	72.300	J	75.300	3C	216.1375	1N	216.6625	09	864.450
7	72.325	39	75.325	1D	216.1625	2N	216.6750	10	864.600
8	72.375	40	75.375	2D	216.1750	3N	216.6875	11	864.800
N	72.400	R	75.400	3D	216.1875	1P	216.7125	12	864.950
9	72.425	21	75.425	1E	216.2125	2P	216.7250	13	863.300
10	72.475	22	75.475	2E	216.2250	3P	216.7375	14	863.650
C	72.500	F	75.500	3E	216.2375	1R	216.7625	15	864.000
11	72.525	23	75.525	1F	216.2625	2R	216.7750	16	864.350
12	72.575	24	75.575	2F	216.2750	3R	216.7875	17	864.700
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.



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