

LR-600 Wireless Speaker/Receiver

Listen[®]
www.ListenTech.com

Specify Part Number

LR-600-072
or LR-600-216

Use Listen[®]'s LR-600 Wireless Speaker/Receiver in classrooms, houses of worship, as a portable sound system, and anywhere you need to get sound to a location without wires. Think of the applications!



Benefits

- All-in-one wireless receiver, 2-channel 10 watt power amplifier, and speaker.
- Exceptional audio quality – 80dB signal-to-noise.
- Users can adjust volume and select channels on the top of the unit.
- Operates on power supply, external 12VAC or internal batteries. (AC power supply included)
- Easily field tunable; select from 57 channels with the simple push of a button.
- Adjustable squelch mutes audio when RF signal is not present.
- Auxiliary input and output connections allows for connection to external equipment.
- Audio input allows for mixing in additional audio sources such as projectors, a CD or MP3 player.
- Handle can be used to carry the unit, to mount on vertical or horizontal surface or to mount on a microphone stand.
- One Listen Expansion Speaker (Part Number LA-316) or any other speaker may be powered by one LR-600 for twice the coverage.
- Listen's backlit LCD display is built into the back of the LR-600 speaker to verify channel selection, programming and RF signal strength.
- The programming feature gives the system manager the ability to lock onto one channel to prevent users from changing channels.

User Applications

- overflow areas
- foyers and lobbies
- dressing rooms
- nurseries
- outdoor pavilion
- offices
- restaurant
- sports bars
- judges chambers
- schools
- houses of worship
- cafeteria areas
- meeting rooms
- convention centers
- training facilities
- indoor or outdoor tour areas
- tour groups
- school excursions
- cruise ships
- trade shows
- amphitheaters
- pavilions
- parks
- zoos
- and many more!



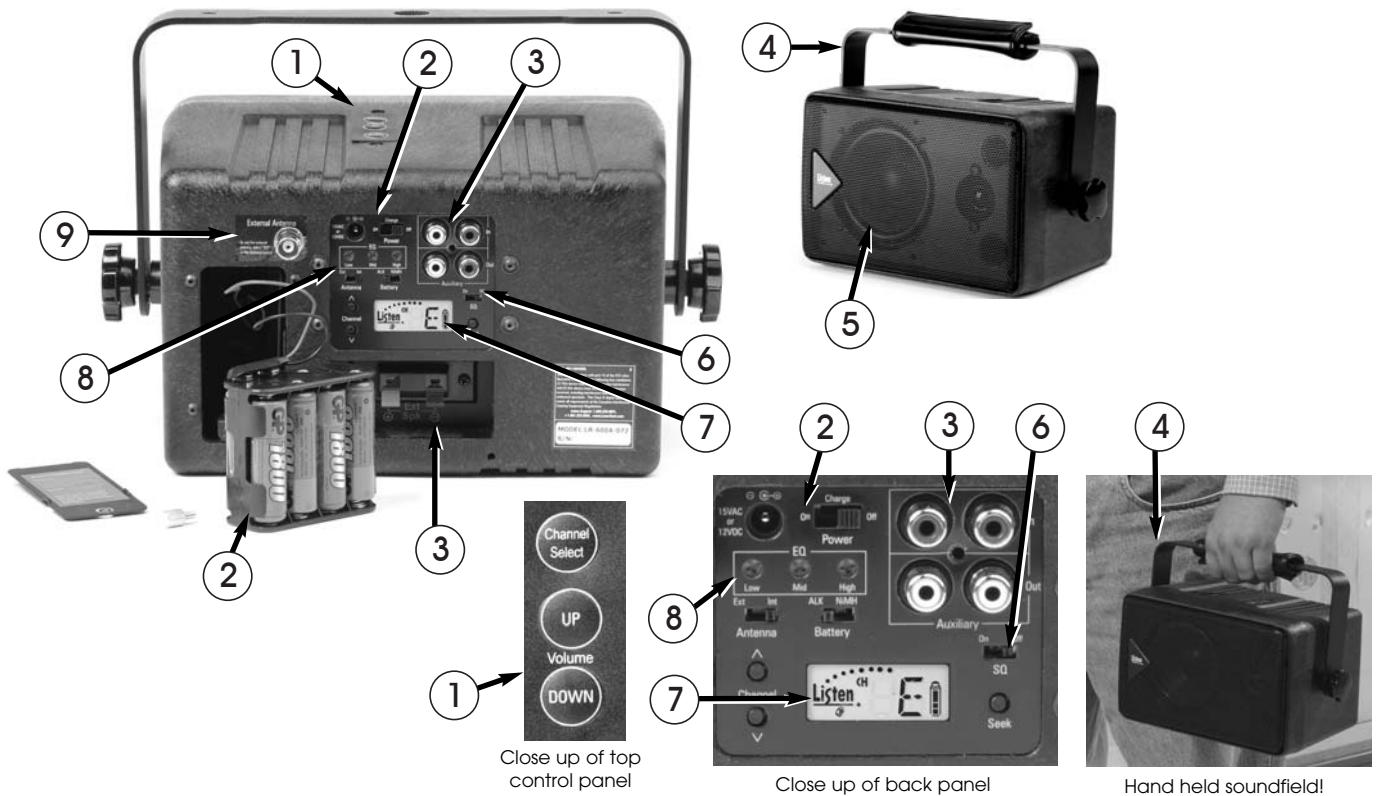
Don't miss a single sound.

Listen Technologies Corporation
8535 South 700 West, Suite A
Sandy, UT 84070-2515 USA
Phone: +1.801.233.8992 or 1.800.330.0891
Fax: +1.801.233.8995
Email: info@ListenTech.com

LR-600 Wireless Speaker

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LR-600 Features

1. Top mounted channel selection and volume controls for easy access.
2. Operates on 15VAC power supply (LA-201, included), 12VDC, or internal eight AA battery pack (batteries sold separately). Includes SmartCharge™ for Listen NiMH Rechargeable AA Batteries (LA-362).
3. Unbalanced auxiliary phono input and output ports.
4. Adjustable handle/mounting bracket. Includes leatherette wrap for hand held use. Leatherette wrap may be removed to mount unit on a wall or ceiling (screws and hollow wall anchors included) or on a microphone stand (16mm nut included). Handle angle can be adjusted 360°.
5. 15/10 Watt (peak/RMS) continuous power with 4 Ohm load, 2-way speaker. Can also drive a separate LA-316 Expansion Speaker.
6. When enabled, SQ™ technology provides highest audio quality available in its product category. SQ can be disabled for compatibility with other assistive listening equipment.
7. LR-600 works with Listen's LT-800 Stationary or LT-700 Portable FM Transmitter; it is also compatible with all other major ALS transmitters.
8. Backlit Look&Listen™ LCD Display indicates channel selected as well as electronic lock status. UP, DOWN, and SEEK buttons tune to 57 channels. Unit can be programmed to show only the channels in use.
9. Adjustable three-band equalizer.
10. Internal antenna. For longer range applications, add a Listen 90 Degree Helical or other Listen remote antenna.

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LR-600 Wireless Speaker Accessories



www.ListenTech.com

LR-600 Antennas



LA-122 Universal Antenna Kit

The single solution for all of your indoor remote antenna needs. Includes: 72 and 216MHz components; flexible and rigid dipoles and monopole radials; hardware for multiple mounting configurations; and 25 feet (7.6m) of RG58 coax cable.



90 Degree Helical

(Rear Mount)
LA-123 for 72MHz or
LA-124 for 216MHz)



216MHz Ground Plane

(Remote Mount)
LA-107 for 216MHz
Designed for outdoor
installation

Expansion Speaker



LA-316 Expansion Speaker

72 & 216MHz Guidelines

- 72MHz:**
 - Compatibility with other assistive listening products.
 - More simultaneous channels (up to six).
- 216MHz:**
 - Longer range (up to 3,000 feet or 900 meters).
 - Avoiding interference problems at 72MHz.

Architectural Specifications

The FM speaker/receiver shall be capable of receiving on 57 wide and narrow band channels at 72 or 216 MHz. The device shall have an adjustable squelch. The device will incorporate an LCD Display that indicates channel and RF signal strength. The device shall have an internal antenna and a BNC connector for an external remote antenna. The speaker/receiver shall have 10 watts RMS output power and have a frequency response of 63Hz to 15KHz, $\pm 3\text{dB}$ (10kHz, $\pm 3\text{dB}$ at 216MHz). The signal to noise ratio shall be 80dB or greater. The device shall be capable of being operated on a power supply external 12 VDC or internal batteries. The Listen LR-600 is specified.

Warranty

Listen Technologies Corporation (Listen®) warrants the LR-600 Wireless Speaker to be free from defects in workmanship and material under normal use and conditions for the useful lifetime of the product from date of purchase. This warranty is only available to the original end purchaser of the product and cannot be transferred. Warranty is only valid if warranty card has been returned within 90 days of purchase. This warranty is void if damage occurred because of misuse or if the product has been repaired or modified by anyone other than a factory authorized service technician. Warranty does not cover normal wear and tear on the product or any other physical damage unless the damage was the result of a manufacturing defect. Listen is not liable for consequential damages due to any failure of equipment to perform as intended. Listen shall bear no responsibility or obligation with respect to the manner of use of any equipment sold by it. Listen specifically disclaims and negates any warranty of merchantability or fitness of use of such equipment including, without limitation, any warranty that the use of such equipment for any purpose will comply with applicable laws and regulations. The terms of the warranty are governed by the laws of the state of Utah, USA. Listen will only accept returned products with prepaid shipping and with a return authorization number. To receive a return authorization number call 1.800.330.0891 or +1.801.233.8992. Please see www.ListenTech.com or contact Listen for complete warranty details.

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LR-600 Wireless Speaker



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Specification		LR-600-072	LR-600-216
RF	RF Frequency Range	72.025 - 75.950 MHz	216.025 - 216.975 MHz
	Number of Channels	57 (17 wide, 40 narrow)	57 (19 wide, 38 narrow)
	Sensitivity	.6uV typical, 1 uV maximum for 12dB SINAD	
	Frequency Accuracy	± .005% stability -10° to 40° C (14° to 104° F)	
	Antenna	Internal	
	Optional Antennas	Several available. See www.ListenTech.com for details	
	External Antenna Connector	BNC	
	Squelch	Programmable in 20 steps	
	Compliance	FCC Part 15, Industry Canada	
** All system specifications are wireless end-to-end			
Audio	System Frequency Response	72MHz: 50Hz - 15kHz (± 3dB)	216MHz: 63Hz - 10kHz (± 3dB)
	System Signal to Noise Ratio (A-weighted)	SQ enabled: 80dB; SQ disabled 60dB at 72 MHz	SQ enabled: 80dB; SQ disabled 50dB at 216 MHz
	System Distortion	<2% total harmonic distortion (THD) at 80% deviation	
	Equalizer	Three band, continuously adjustable via rear panel trim pots.	
	Unbalanced Auxiliary Input	Two phono connectors, unbalanced, -10dBu nominal input level adjustable, +11dBu maximum, impedance 100k Ohms	
	Unbalanced Output	Two phono connectors, unbalanced, 0dBu nominal output level, +11dBu maximum, impedance 1k Ohms	
	Internal/External Speaker Output	15/10 Watts (peak/RMS) continuous power with 4 Ohm load	
	*** All system specifications are wireless end-to-end		
Controls	Set-up Controls, Back Panel	Internal/External Antenna, Alkaline/NiMH Batteries, SQ Enabled/Disabled	
	User Controls, Top Panel	Volume UP/DOWN, Channel UP (lockable)	
	User Controls, Back Panel	Power/Charging, channel UP/DOWN, SEEK (channel, SEEK and volume are lockable)	
	Programming	Unit can be programmed so that only desired channels are displayed. Squelch can be adjusted for sensitivity. Channel and volume can be locked.	
Indicators	LCD Display	Backlit, indicates channel, RF signal strength, lock status, programming	
Power	Power Supply Type	In-line power supply, Listen part number LA-201	
	Power Supply Input	120VAC, 60 Hz, 19 Watts (maximum continuous)	
	Power Supply Output	15VAC, 1A	
	Power Supply Connector	.02 in OD x .01 in ID (5.0mm x 2.5 mm), barrel type	
	Compliance	UL Listed	
	Optional Battery	Eight AA batteries, alkaline or NiMH.	
	Optional Battery Charging	Fully automatic, 14 hours	
	Battery Life (Listen batteries)	12+ hours alkaline (LA-361), 10+ hours NiMH rechargeable (LA-362), mid volume, music programming (volume and audio type will effect battery life)	
Physical	Dimensions (with bracket/handle in up position)	11.0 in x 9.0 in x 7.0 in WxDxH (27.9cm x 22.9cm x 17.8cm) Handle stands off unit 2.0 in (5.1 cm)	
	Dimensions (without bracket/handle)	9.0 in x 7.0 in x 7.0 in WxDxH (22.9cm x 17.8cm x 17.8cm)	
	Unit Weight	6.2 lbs (2.8kg)	
	Unit Weight with LA-201 Power Supply	7.6 lbs (3.5kg)	
	Unit Weight with eight AA batteries	6.8 lbs (3.1kg)	
	Shipping Weight	10 lbs (2.8kg)	
Micophone Stand Mounting Nut	16mm		
Environmental	Temperature - Operation	-10° to +40°C (14° to 104° F)	
	Temperature - Storage	-20° to +50°C (-4° to 122° F)	
	Humidity	0 to 95% relative humidity, non-condensing	

Photographs, CAD drawings, etc. available at www.ListenTech.com.

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