

LT-800 Stationary Transmitter

Listen®

www.ListenTech.com

Specify Part Number

LT-800-072
or LT-800-216



Thanks to its outstanding audio quality, the Listen LT-800 Stationary Transmitter can be used in a variety of applications.

The LT-800 is connected to your main audio system, broadcasting a high quality audio signal to belt pack receivers, 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 headset. The signature Look & Listen™ LCD shows channel, lock, programming and RF power.

Features

- Every Application – A choice of 72 or 216 MHz systems, complete antenna and accessory options and superb audio quality make Listen products ideal for a wide range of applications.
- Works Where Others Won't – Incorporates the latest, most advanced technology for clear transmission.
- Double the Range – 216 MHz systems offer double the range of more familiar 72 MHz systems – up to 3,000 feet (914 m).
- Superior Audio Quality – 80 dB signal-to-noise ratio, setting the industry's sound quality standard.
- Designed for installation – Rack mountable with remote antennas make installation easy and service reliable.

User Applications

- installed sound systems
- houses of worship
- government/civic meetings
- schools
- live theater
- meeting rooms
- overflow areas
- foyers and lobbies
- dressing rooms
- nurseries
- outdoor pavilions
- judges chambers
- offices
- restaurants
- sports bars
- cafeteria areas
- convention centers
- training facilities
- trade shows
- amphitheaters
- pavilions
- parks
- zoos
- and many more!

Listen Technologies Corporation

8535 South 700 West, Suite A
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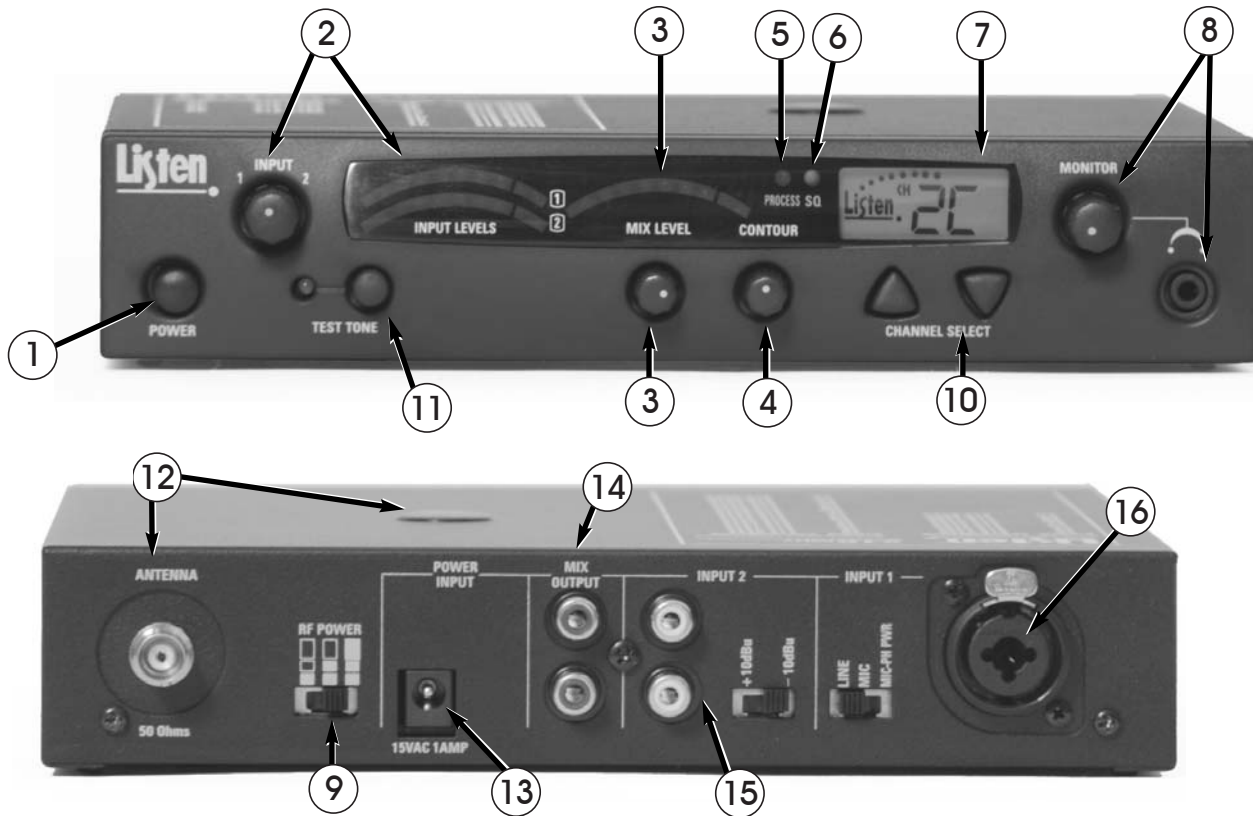
Don't miss a single sound.



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Antenna not included. See following page for options.

LT-800 Features

1. POWER on/off on front of unit for easy access.
2. Multiple audio inputs, with input level control and dual VU meters.
3. Mix Level control sets level of mixed audio. VU meter shows the output level of your mixed audio.
4. Contour equalization cuts/boosts frequencies above 5 kHz.
5. Processing (automatic gain control and compression) can be turned on and off from the front panel.
6. SQ (Super Quiet Companding Technology) can be turned on and off from the front panel.
7. LCD display shows channel selected, channel lockout, programming and RF power.
8. Earphone jack and volume control to check audio integrity of transmission source.
9. Multiple transmitter power settings (full, 1/2 and 1/4) with indication on LCD display.
10. UP/DOWN channel selection of 57 channels. User can easily change between Basic and Expanded modes.
11. The test tone level is adjustable, which adds flexibility when setting up and testing your system.
12. Top mount, rear mount, and remote antenna options.
13. In-line power supply (LA-201 Power Supply included) attaches here.
14. 2 phono connectors for a mixed output of Inputs 1 and 2.
15. 2 unbalanced phono audio inputs. Select either +10 dBu or -10 dBu.
16. Balanced XLR / 1/4 inch audio input. Select either mic, line or mic phantom power level for input. Electret (Condenser) microphones can now be used with Input 1 phantom power.

100% Phonak compatible. Through software control, the channel display is changed to match the frequencies of Phonak, a leader in hearing aids.
(216 MHz model only)

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LT-800 Stationary Transmitter Accessories

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LR-800 Antennas



LA-122 Universal Antenna Kit

The single solution for all of your indoor remote antenna needs. Includes: 72 and 216 MHz components; flexible and rigid dipoles and monopole radials; hardware for multiple mounting configurations; and 25 feet (7.6m) of RG-58 coax cable.



Telescoping
(Top Mount)
LA-106 for 72 MHz or
LA-102 for 216 MHz



72 MHz Helical
(Top Mount)
LA-101 for 72 MHz



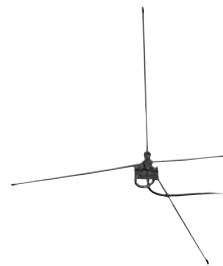
Coaxial Dipole Antenna

LA-116 for 72 MHz
LA-117 for 216 MHz



90 Degree Helical

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



216 MHz Ground Plane

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

Rack Mount Options



LA-326 Rack Mounting Kit

Includes components for single and dual rack configuration and a security cover. Rack mounted units can only use rear mounted or remote antennas



Rack Antenna Mount Kit

LA-125 for 72 MHz or
LA-126 for 216 MHz

Architectural Specifications

The stationary FM transmitter shall be capable of broadcasting on 57 channels. The transmitter shall have a SNR of 80 dB or greater. The output power shall be adjustable to quarter, half or full. Channel tuning shall be capable of being locked. The device shall broadcast on both wide and narrow band channels. The device shall have an audio frequency response of 50 Hz to 15k Hz, ± 3 dB at 72 MHz, or of 50 Hz to 10k Hz, ± 3 dB at 216 MHz. It shall have two mixing audio inputs. The device shall have the following audio controls: input level, mix level and an adjustable low pass filter. The device shall have an audio processor that is capable of automatic gain control and limiting. The Listen LT-800 is specified.

Warranty

Listen Technologies Corporation (Listen®) warrants the LT-800 Stationary Transmitter 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, U.S.A. Listen will only accept returned products with prepaid shipping and with a return merchandise authorization number. To receive a return merchandise 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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Specifications		72 MHz	216 MHz
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)
	Frequency Accuracy	+/- .005% stability 0 to 50C	
	Transmitter Stability	50 PPM	
	Output Power	8,000uV at 3 m	100mW (Max allowed by FCC)
	Antenna	Several available. See www.ListenTech.com for details	
	Antenna Cable	RF-58 or RG-8 coaxial cable. See www.ListenTech.com for details	
	Antenna Connector	Reverse BNC	BNC
Compliance	FCC Part 15, Industry Canada		
** All system specifications are wireless end-to-end			
Audio	System Frequency Response	50 Hz - 15 kHz (±3dB)	50 Hz - 10 kHz (± 3dB)
	System Signal to Noise Ratio (A-weighted)	SQ enabled: 80 dB; SQ disabled 60 dB	SQ enabled: 80 dB; SQ disabled 50 dB
	System Distortion	<2% total harmonic distortion (THD) at 80%	
	Audio Input 1	Rear panel. Female-XLR and 1/4 in combo connector, balanced, 0/-55 dBu (line/mic) nominal input level adjustable, -30/+21 dBu (mic/line) maximum input level, impedance 20k/1k ohms (line/mic), phantom power +12VDC	
	Audio Input 2	Rear panel. (2) Phono connectors, unbalanced, -10/+10 dBu nominal input level adjustable, +30 dBu maximum, impedance 100k ohms	
	Combined Audio Output (Mix)	Rear panel. (2) Phono connectors, unbalanced, 0 dBu nominal output level, +19 dBu maximum, impedance 10 ohms.	
	Headphone Output	Front panel. (1) 3.5 mm connector, unbalanced, adjustable output level, maximum, impedance 10 ohms. 350mW, 32 ohms, 3.5 mm stereo.	
	Controls	Front Panel	Power, Test Tone on/off, Channel up/down, Input Level, Mix Level, Contour, Headset Level
Rear Panel		Input 1 Level (Line, Mic, Mic-Phantom Power), Input 2 Level (-10/+10 dBu), RF Power (low, mid, high)	
Internal Adjustments		Compression ratio for audio processor	
Indicators	Programming	SQ on/off, Processing on/off	
	Input 1 and Input 2, Mix VU	8 Green, 2 Red	
	SQ and Processing	Indicated by a green LED when on	
	RF Power	Indicated on the LCD Display	
	Power	Red LED illuminates when the unit is powered up	
Power	LCD Display	Channel designation, lock status, RF Power Level, programming	
	Test Tone	Red LED illuminates when test tone enabled	
	Power Supply Type	In-line power supply, Listen part number LA-201	
Physical	Power Supply Input	120VAC, 60 Hz, 19 watts	
	Power Supply Output	15VAC, 1000mA	
	Power Supply Connector	.02 in. (5.0 mm) OD x .01 in. (2.5 mm) ID, barrel type	
	Compliance	UL Listed	
Environmental	Dimensions W x D x H	8.50 x 9.12 x 1.75 in. (21.6 x 21.16 x 4.45 cm)	
	Unit Weight	3.0 lbs. (1.4 kg)	
	Unit Weight with LA-201 Power	4.4 lbs. (2.0kg)	
	Supply	5.0 lbs. (2 kg)	
	Shipping Weight	5.0 lbs. (2 kg)	
Environmental	Rack Mounting	1 rack unit, optional rack mount not included. Order Listen part number LA-326.	
	Temperature - Operation	-10 C (14 F) to +40° (104 F)	
	Temperature - Storage	-20 C (-4 F) to +50° (122 F)	
	Humidity	0 to 95% relative humidity, non-condensing	

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

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