

LT-800 Stationary Transmitter

Listen®

www.ListenTech.com

Specify Part Number

LT-800-072
or LT-800-216



The Listen® LT-800 Stationary Transmitter is available in both the 72MHz and 216MHz frequency range, with 57 channels in each frequency range. This means you are sure to find a clear signal, or can use up to six Listen LT-800 Stationary Transmitters in the same area in the 72MHz frequency (three in 216MHz).

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, then broadcasts that high quality audio signal to belt pack receivers, stationary receivers, or wireless speaker/receivers. The end result – your audience can hear you better because of better speaker placement or because they have their own belt pack and headset.

Benefits

- Every Application – A choice of 72 or 216MHz 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 – 216MHz systems offer double the range of more familiar 72MHz systems – up to 3,000 feet (914m).
- Superior Audio Quality – 80dB 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!



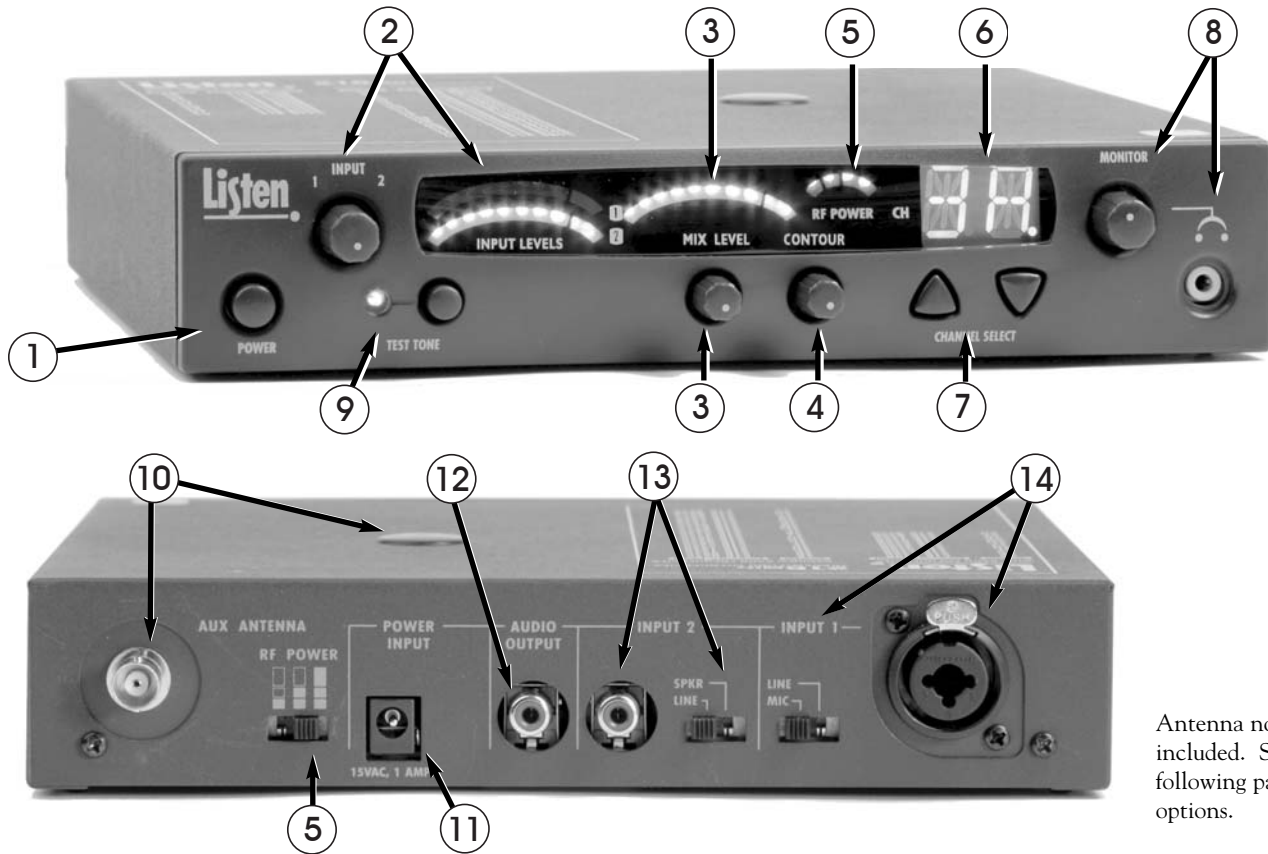
Don't miss a single sound.

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

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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 (see Features #13 and 14).
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 6kHz.
5. Multiple transmitter power settings (full, 1/2 and 1/4) with LED indicator (control on back panel).
6. LCD display indicates channel selected as well as electronic lock status.
7. UP/DOWN channel selection of 57 channels. Can also electronically lock on channel to prevent tampering.
8. Earphone jack and volume control to check audio integrity of transmission source.
9. Test tone to aid in tuning.
10. Top mount, rear mount, and remote antenna options.
11. In-line power supply (LA-201 Power Supply included) attaches here.
12. Audio output jack contains mix of audio inputs for distribution to another audio device.
13. Unbalanced / phono audio input. Select either speaker or line level input (switch on back panel).
14. Balanced / female XLR / 1/4 inch audio input. Select either Mic or Line level for input (switch on back panel).

Use for stationary installations such as houses of worship, meeting rooms, theaters, stadiums or arenas for ADA compliance.

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LT-800 Stationary Transmitter Accessories

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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.

Telescoping

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

72MHz Helical

(Top Mount)
LA-101 for 72MHz



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

Rack Mount Options



LA-326 Rack Mounting Kit*

Includes components for single and dual rack configuration and a security cover



Antenna Kit for the LA-326 Rack Mount Kit

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

* Rack mounted units can only use rear mounted or remote antennas

Architectural Specifications

The stationary FM transmitter shall be capable of broadcasting on 57 channels. The transmitter shall have a SNR of 80dB 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 50Hz to 15KHz, ± 3 dB at 72MHz, or of 50Hz to 10kHz, ± 3 dB at 216MHz. It shall have two mixing audio inputs. The device shall have the following audio controls: input level, process control and an adjustable low pass shelving filter. 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, 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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Specification		LT-800-072	LT-800-216
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)
	Frequency Accuracy	± .005% stability 0° to 50°C (32° to 122° F)	
	Transmitter Stability	50 PPM	
	Transmitter Range	3,000 ft (914.4m)	
	Output Power	8,000uV at 3m (20mW)	100mW (Max allowed by FCC)
	Antenna	Several available. 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	50Hz - 15kHz (±3dB)	63Hz - 10kHz (±3dB)
	System Signal to Noise Ratio (A-weighted)	SQ enabled: 80dB; SQ disabled 60dB	SQ enabled: 80dB; SQ disabled 50dB
	System Distortion	<2% total harmonic distortion (THD) at 80% deviation	
	Audio Input 1	Rear panel. Female-XLR and ¼ in combo connector, balanced, 0/-55dBu (mic/line) nominal input level adjustable, -30/+21dBu (mic/line) maximum, impedance 1k/20k Ohms (line/mic)	
	Audio Input 2	Rear panel. One Phono connector, unbalanced, -10/+10dBu (line/speaker) nominal input level adjustable, +30dBu maximum, impedance 100k Ohms	
	Combined Audio Output (Mix)	Rear panel. One Phono connector, unbalanced, 0dBu nominal output level, +19dBu maximum, impedance 10 Ohms.	
	Headphone Output	Front panel. One 3.5mm connector, unbalanced, adjustable output level, +14dBu 250mW, maximum, impedance 32 Ohms.	
Controls	RF Power Selection	Rear panel. Full, ½, ¼ (see "Output Power" above).	
	Set-up Controls	Front Panel. Input level, mix level (modulation), contour equalization	
	User Controls	RF power, test tone, channel UP and DOWN, Input 1: line or mic level, Input 2: speaker or line level.	
	Programming	Channel selection can be locked by holding the UP and DOWN button 5 seconds.	
Indicators	Input VU Meter	Dual Ten step LED (eight green, two red)	
	Mix VU Meter	Ten step LED (eight green, two red)	
	RF Power	Four step green LED	
	Power	Green LED illuminates when the unit is powered up	
	LCD Display	Channel and lock status	
	Test Tone	Red LED illuminates when test tone enabled	
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 2.5mm), barrel type	
	Compliance	UL Listed	
Physical	Dimensions	8.0 in x 8.0 in x 7.75 in WxDxH (20.3cm x 20.3cm x 4.45cm)	
	Unit Weight	3.0 lbs (1.4kg)	
	Unit Weight with LA-201 Power Supply	4.4 lbs (2.0kg)	
	Shipping Weight	5.0 lbs (2.3 kg)	
	Rack Mounting	½ rack unit (RU)	
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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