

LT-700 Portable Transmitter

Listen®

www.ListenTech.com

Specify Part Number

LT-700-072
or LT-700-216

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 or training, or personal use – anywhere you need to amplify sound but don't have (or want) an installed sound system. Portable transmission has never been easier for users!



Benefits

- Truly Wireless – Roam up to 150 feet (46m) from the receivers with complete freedom.
- Superior Audio Quality – 80dB signal to noise ratio ... setting the industry's sound quality standard.
- Look & Listen™ – This transmitter offers a unique LCD display for at-a-glance verification of channel selection and battery level.
- Compatibility – Compatible with most assistive listening equipment.
- SmartCharge™ – Charging circuitry is built into the unit to prevent overcharging, as well as to insure most complete charge.

User Applications

- tour groups
- cafeteria areas
- language interpretation
- meeting rooms
- outdoor pavilions
- trade shows
- meeting monitoring
- amphitheaters
- convention centers
- pavilions
- training facilities
- offices
- cruise ships
- museums
- schools
- parks
- houses of worship
- zoos
- and many more!



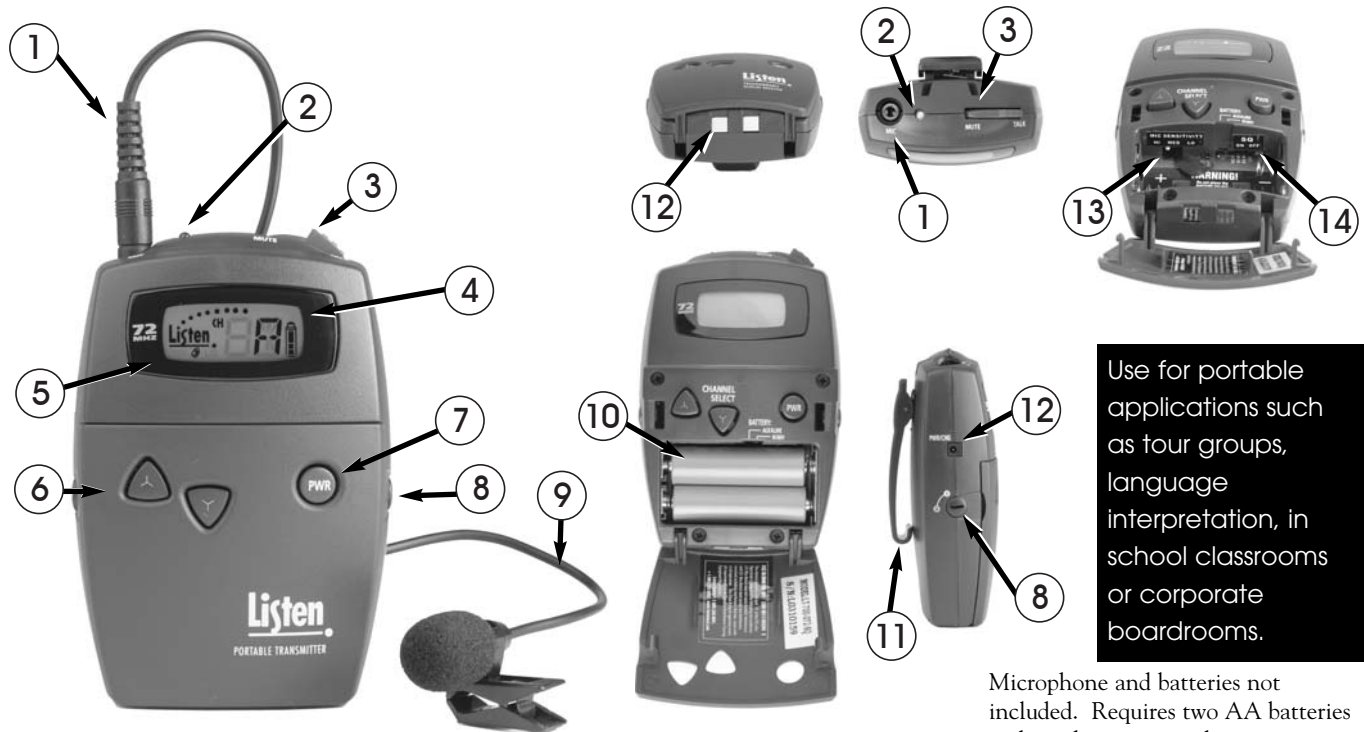
Don't miss a single sound.

Listen Technologies Corporation
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Use for portable applications such as tour groups, language interpretation, in school classrooms or corporate boardrooms.

Microphone and batteries not included. Requires two AA batteries and condenser microphone.

LT-700 Features

1. A microphone or line level source (such as a CD or MP3 player) connects here. Use the LA-263 Line/Microphone "Y" Cable to connect an audio device with your microphone.
2. Multifunction LED indicates when microphone is muted, if batteries are low, and charging status.
3. Easy access mute switch.
4. Look&Listen™ LCD Display shows channel selection, channel lock, and battery level (see back cover). Also used to program channel selection (see Feature #5).
5. Offers 57 channels, or can be programmed so that only the channels you are using are displayed.
6. UP/DOWN channel selection. Also used to lock and unlock channel selection to prevent accidental channel switching.
7. Easy access POWER button.
8. Manually lockable battery compartment door.
9. Transmitter antenna is built into the microphone cord, eliminating additional wires while maximizing transmission effectiveness.
10. Uses two AA batteries. Adjustable to use either alkaline or NiMH batteries (see SmartCharge™ in LT-700 Benefits below).
11. Exclusive belt clip "loop" prevents unit from slipping off belt or strap.
12. Optional single transformer charging plug port or contact points for Listen's drop in charging cases.
13. Adjustable microphone sensitivity switch for best audio results.
14. When enabled, SQ technology provides highest audio quality available in its product category. SQ can be disabled for compatibility with other assistive listening equipment).

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LT-700 Accessories



www.ListenTech.com

LT-700 Microphones



Lavalier
LA-261



Over-the-Ear
LA-268



Conference
LA-277

Microphones w/Active Earphones



**Over-the-Head
Mic w/Earphone**
LA-272



**Over-the-Ear Mic
w/Earphone**
LA-273



Over-the-Head
LA-262



Collar
LA-276

Use Both an Audio
Source and Mic



**Line/Microphone
"Y" Cable**
LA-263



Noise Canceling
LA-270



Hand Held
LA-274



These headsets combine cabling for both a transmitter and a receiver

Architectural Specifications

The portable FM transmitter shall be capable of broadcasting on 57 channels. The unit shall incorporate a microphone sensitivity switch. The device shall broadcast on both wide and narrow band channels with a SNR of 80dB or greater. The device shall have an audio frequency response of 50Hz to 15KHz, $\pm 3\text{dB}$ at 72MHz, or of 50Hz to 10kHz, $\pm 3\text{dB}$ at 216MHz. The device will incorporate a mute switch. The battery door shall be capable of being mechanically locked. The device shall incorporate an LCD display that indicates channel, battery level, low battery, battery charging, and RF signal strength. The portable transmitter shall incorporate automatic battery charging circuitry for recharging of NiMH batteries, with the ability to charge via a wall transformer or drop in charging case. The Listen LT-700 is specified.

Warranty

Listen Technologies Corporation (Listen®) warrants the LT-700 Portable 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-700-072	LT-700-216
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 0° to 50°C (32° to 122° F)	
	Transmitter Stability	50 PPM	
	Transmission Range	150 ft (45.7m)	
	Output Power	8000uV at 3m (20mW)	100mW (Max allowed by FCC)
	Antenna	Uses microphone cable	
	Antenna Connector	3.5mm connector	
	Compliance	FCC Part 15, Industry Canada	
Audio	** All system specifications are wireless end-to-end		
	System Frequency Response	50Hz - 15kHz (± 3dB)	63Hz - 10kHz (±3dB)
	System Signal to Noise Ratio (A-weighted)	SQ enabled: 80dB; SQ disabled 60dB	
	System Distortion	<2% total harmonic distortion (THD) at 80% deviation	
	Microphone Input	Unbalanced, tip of 3.5mm connector, (55 dBu nominal, -32dBu maximum, impedance 21 Ohms)	
	Microphone Sensitivity	Three position switch: high, middle and low; 6dB increments	
	Line Input	Unbalanced, ring of 3.5mm connector, (-10dB nominal input level adjustable, +4dBu maximum, impedance 10k Ohms)	
	Phantom Power	3VDC	
Controls	Set-up Controls, behind the door	Mic sensitivity, NiMH/alkaline battery, SQ enable/disable	
	User Controls	Power, mute, channel UP and DOWN	
	Programming	Unit can be programmed so that only desired channels are displayed to the user; channel selection can be locked by holding the DOWN button 5 seconds.	
Indicators	LED	Red, illuminates when unit is on. Flashes when batteries are low, or to indicate charging. Flashes 2x when muted	
	LCD Display	Channel, lock status, programming	
Power	Battery Type	Two AA batteries, alkaline or NiMH	
	Battery Life (Listen batteries)	20 hours alkaline (LA-361), 10 hours NiMH rechargeable (LA-362)	
	Battery Charging (NiMH only)	Fully automatic, 14 hours	
	Power Supply Connector	2.3mm OD by 0.7mm ID, barrel type connector. 7.5VDC, center positive 300mA. Drop in contact points for use with Listen charging/carrying cases.	
	Compliance	UL Listed	
Physical	Dimensions	3.0 in x 1.0 in x 5 in WxDxH (7.6cm x 2.5cm x 13cm)	
	Unit Weight	3.9oz (111g)	
	Unit Weight with batteries	5.8 oz (164.4g)	
	Shipping Weight	1.0 lbs (0.45kg)	
	Door	Manually lockable. UP, DOWN and power through door, other controls behind door (see Controls above)	
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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