



Configuration:

- LT-700-072 Portable Display RF Transmitter (72 MHz)
- LT-700-216 Portable Display RF Transmitter (216 MHz)
- LT-700-863 Portable Display RF Transmitter (863 MHz)

Product Overview:

The Listen LT-700 Portable Display RF Transmitter is used to wirelessly broadcast audio for a variety of portable applications. Whether its voice or music, you can broadcast your audio to everyone in the audience without having to carry a microphone or be plugged into a wall. The LT-700 is excellent for factory tours, outdoor events, wireless microphone applications, classrooms, training, or personal use - anywhere you need to amplify sound, but don't have (or want) an installed system. With the many features of the LT-700, portable transmission has never been easier for users!

Highlights:

- Superior Audio Quality - 80 dB signal-to-noise ratio, setting the industry's sound quality standard
- A choice between 57 channels, complete antenna and accessory options make Listen products ideal for a wide range of applications
- Look & Listen™ LCD shows channel, battery status, and programming information
- 100 % Digital - Listen receivers are digitally-tuned so transmission won't drift; assurance that when you select a channel, it stays on the channel
- Transmit up to six (6) channels simultaneously on 72 MHz
- Uses standard alkaline or NiMH batteries
- Transformer charging plug or drop in charging contacts
- Built in SmartCharge™ won't allow batteries to overcharge. Charging circuitry is conveniently built into Listen's LT-700 Transmitter; never worry about unplugging a transformer at a certain time
- Mute switch
- Mic and/or line level inputs
- Limited Lifetime Warranty with hassle-free support

Includes:

- One (1) LT-700 Portable Display RF Transmitter
- One (1) Owner's manual (72 MHz)

Architectural Specification:

The portable RF display 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 80 dB or greater. The device shall have an audio frequency response of 50 Hz to 15 KHz, '±3 dB at 72 MHz, or of 50 Hz to 10 kHz, '±3 dB at 216 MHz. 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-700-072 or LT-700-216 is specified.

Product Specification: Portable Display RF Transmitter (72 MHz)	
Audio	
Frequency Response	50 Hz - 15 kHz (± 3 dB)
Signal-to-Noise Ratio	SQ enabled: 80dB; SQ disabled 60dB
Distortion	<2% total harmonic distortion (THD) at 80% deviation
Microphone Input	Unbalanced, ring of 3.5 mm connector, (-10dB nominal input level adjustable, +4dBu maximum, impedance 10k Ohms)
Microphone Sensitivity	Three position switch: high, middle, and low; 6db increments
Microphone Power	3VDC Bias
Line Input	Unbalanced, ring of 3.5mm connector, -10dbu nominal input level, -3dbu maximum, impedance 10K ohms
Controls	
User Controls	Power, mute, channel UP/DOWN, Mic sensitivity, NiMH/alkaline battery, SQ enable/disable
Programming	Channel Lock out, Channel lock
Indicators	
LEDs	Red, illuminated when unit is on. Flashes when batteries are low, or to indicate charging. Flashes when muted
LCD	Channel Designation, lock status, signal strength indication, battery life, RF Power
RF	
Frequency Range	72.025 - 75.950 MHz
Number of Channels	17 wide band, 40 narrow band
Number of Simultaneous Transmitters	6
Frequency Accuracy	$\pm .005\%$ stability 32 to 122° (0 to 50°C)
Transmitter Stability	50 PPM
Transmission Range	From 0 to 150 ft. (45.7 m)
Output Power	Less than 10mW
Antenna Type	Microphone cable
Antenna Connector	3.5 mm connector

Power	
Battery Type	Two AA batteries, alkaline or NiMH
Battery Life	20 hours alkaline (LA-361), 10 hours NiMH rechargeable (LA-362)
Battery Charging Time	Fully automatic, 13 hours
Power Supply	I/P 120VAC; O/P 7.5VDC 250 mA; Drop in contact points for use with charging cases. Power supply not included (LA-208)
Power Supply Connector	2.3mm OD by 0.7mm ID, barrel type connector 7.5 VDC, center positive <250mA. Drop in contact points for use with Listen charging cases
Compliance	RoHS, WEEE, UL, PSE, CE, CUL, TUV, CB compliant
Physical	
Height	5.00 in. (13.0 cm)
Width	3.00 in. (7.6 cm)
Depth	1.00 in. (2.5 cm)
Color	Dark Grey with white silk screening
Weight	3.9 oz. (111 g)
Unit Weight with Batteries	5.8 oz. (164 g)
Door	Manually lockable, controls accessible through doors
Shipping Weight	1.0 lbs. (0.5 kg)
Environmental	
Temperature - Operation	14 to 104° F (-10 to 40° C)
Temperature - Storage	-4 to 122° F (-20 to 50° C)
Relative Humidity	0 to 95% relative humidity, non-condensing
Compliance	
RF	FCC Part 15, Industry Canada