

LT-700-150

Portable FM Display Transmitter



Configurations

LT-700-150

The Listen LT-700 Portable Transmitter is used to wirelessly broadcast audio for a variety of portable applications. Whether its voice or music, the user can broadcast 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 amplified sound is needed, and no installed system is present. With the many features of the LT-700, portable transmission has never been easier for users!

Highlights

- Portable transmission – Broadcast the interpreter or tour guide's voice to everyone in the audience without having to carry a microphone or be plugged into a wall.
- Superior Audio Quality – 80 dB signal-to-noise ratio, setting the industry's sound quality standard.
- With a choice between 32 channels, Listen products are ideal for a wide range of applications.
- 100 % Digital – Listen receivers are digitally-tuned so transmission won't drift; assurance that when a channel is selected, it stays on that channel.
- Uses standard alkaline or NiMH batteries – Built in SmartCharge™ won't allow batteries to overcharge (NiMH batteries only).
- Look & Listen™ LCD shows channel, battery status, and programming information.
- Up to six (6) simultaneous transmitted channels.

Includes

LT-700-150 Portable Display FM Receiver (150 MHz)
Quick Reference Card

Used With

LR-400-150 Portable Display FM Receiver (150 MHz)
LR-500-150 Portable Programmable Display FM Receiver (150 MHz)

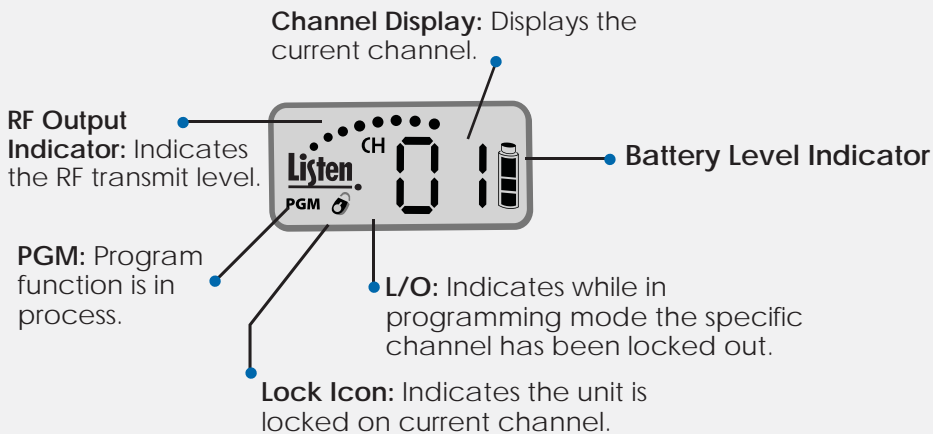
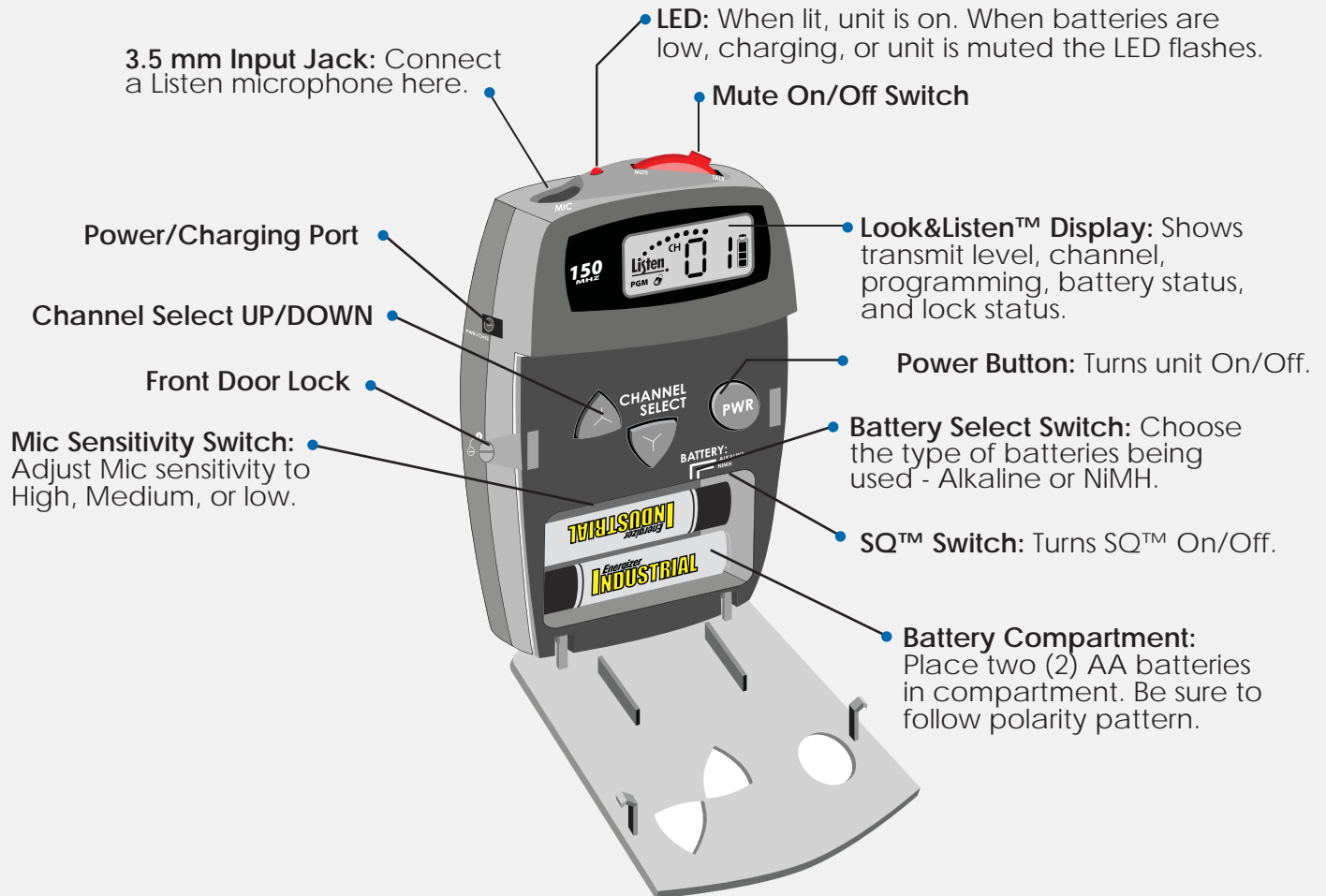
Architectural Specifications

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The portable FM transmitter shall be capable of broadcasting on 32 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). 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 device shall be able to enable companding. The unit shall operate off of two (2) AA batteries; alkaline or NiMH. 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-700-150 is specified.

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Functionality Quick Reference



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Specifications*

Audio	RF Frequency Range	150.8000 MHz - 152.3500 MHz
	Number of Channels	6 wideband, 26 narrowband
	Number of Simultaneous Transmitters	Six (6)
	Frequency Accuracy	± .005% stability 32 to 122° (0 to 50°C)
	Transmitter Stability	50 PPM
	Transmission Range	up to 45.7 m (150 ft.)
	Output Power	10 mW maximum
	Antenna	Uses microphone cable
	Antenna Connector	3.5 mm connector
	Compliance	C-Tick
	System Frequency Response	50 Hz - 15 kHz (±3dB)
	System Signal to Noise Ratio	SQ enabled 80 dB, SQ disabled 60 dB
	System Distortion	<2% total harmonic distortion (THD) at 80% deviation
	Microphone Input	Unbalanced, tip of 3.5mm connector, -20 dbu nominal, -30 dbu maximum, impedance 21 ohms
	Microphone Sensitivity	Three position switch: high, middle, and low; 6db increments
Line Input	Unbalanced, ring of 3.5mm connector, -10 dbu nominal input level, -3 dbu maximum, impedance 10K ohms	
Microphone Power	3VDC Bias	

Controls & Indicators	User Controls	Power, mute, channel UP/DOWN
	Set-up Controls (battery compartment)	Mic sensitivity, NiMH/alkaline battery, SQ enable/disable
	Programming	Channel lock out, Channel lock
	LED	Red, illuminated when unit is on. Flashes when batteries are low, or to indicate charging. Flashes when muted.
	Display	Channel Designation, lock status, signal strength indication, battery life, RF Power

Power	Battery Type	Two (2) AA batteries, alkaline or NiMH
	Battery Life (Listen batteries)	15 hours alkaline (LA-361), 8 hours NiMH rechargeable (LA-362)
	Battery Charging (NiMH only)	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
	Power Supply Compliance	RoHS, WEEE, UL, PSE, CE, CUL, TUV, CB compliant

Physical	Dimensions (H x W x D)	3.00 x 1.00 x 5.00 in. (7.6 x 2.5 x 13.0 cm)
	Color	Dark Grey with white silk screening
	Unit Weight	3.9 oz (111g)
	Unit Weight with batteries	5.8 oz (164g)
	Shipping Weight	1.0 lbs. (0.45kg)
	Door	Manually Lockable (on sides). Up, down, and power buttons through door

Environmental	Temperature - Operation	14 to 104° F (-10 to 40° C)
	Temperature - Storage	-4 to 122° F (-20 to 50° C)
	Humidity	0 to 95% relative humidity, non-condensing

*Specifications are subject to change without notification.