

LT-800-150 Stationary FM Transmitter



Configurations

LT-800-150-(04)

Thanks to its outstanding audio quality, the Listen LT-800-150 Stationary FM Transmitter can be used in a variety of applications. The LT-800-150 is excellent for assistive listening, language interpretation, or other applications where running cable may not be an option. This transmitter is a great choice for interfacing to an existing sound system and broadcasting the desired sound throughout a venue. The LT-800-150 offers versatility with many different types input connections; line or mic level, balanced, unbalanced. It can be rack mounted with our optional universal rack mount kit or can be placed on a shelf. The LT-800-150 offers 32 frequencies for easy set up for a clear interference free channel. The end result – the audience can hear and understand the presentation.

Highlights

- 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.
- Up to six (6) simultaneous transmitted channels.
- Look & Listen™ LCD shows channel, channel lock and programming information.
- Balanced/Unbalanced Inputs – user can interface with any audio source on the market.
- Designed for installation – rack mountable with optional remote antennas make installation easy and service reliable.

Includes

LT-800-150 Stationary FM Transmitter (150 MHz)
LA-207 Power Supply for LT-800
Line Cord (04)

Used With

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

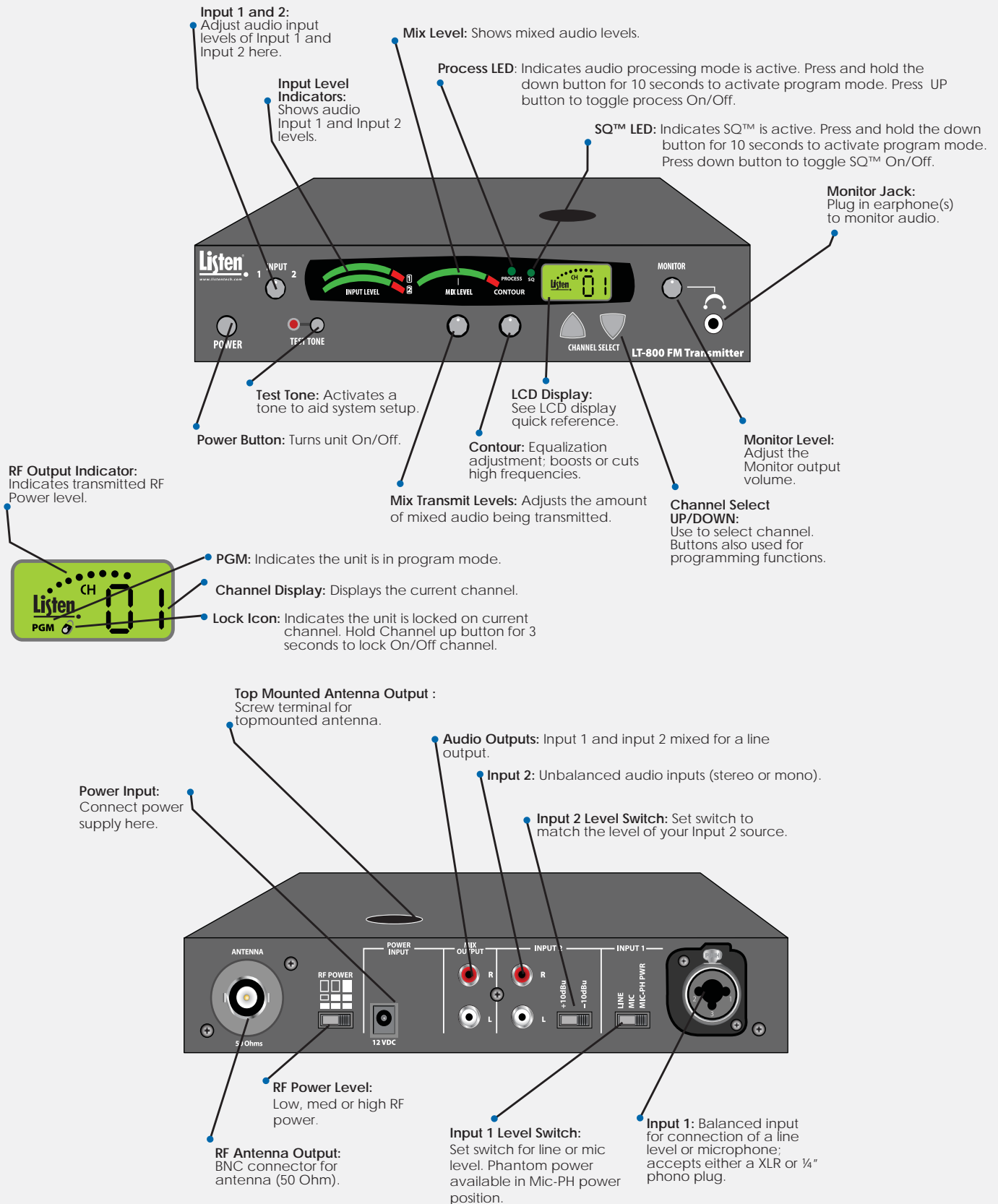
Architectural Specifications

LT-800-150 Stationary FM Transmitter

The stationary FM transmitter shall be capable of broadcasting on 32 channels. The transmitter shall have an 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 have an audio frequency response of 50 Hz to 15 kHz (± 3 dB). It shall have two (2) mixing audio inputs and a mixed signal output. The device shall have the following audio controls: input level, mix level and an adjustable low pass filter (contour). The device shall have an audio processor that is capable of automatic gain control and limiting. The Listen LT-800-150 is specified.

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Functionality Quick Reference



LT-800-150

Stationary FM Transmitter

Specifications*		
Audio	RF Frequency Range	150.8000 MHz - 152.3500 MHz
	Number of Channels	6 wideband, 26 narrowband
	Number of Simultaneous Transmitters	6
	Frequency Accuracy	± .005% stability 32 to 122° (0 to 50°C)
	Transmitter Stability	50 PPM
	Transmission Range	Up to 914 m (3000 ft.)
	Output Power	100 mW
	System Frequency Response	50 Hz - 15 kHz (±3 dB)
	System Signal to Noise Ratio	SQ enabled 80 dB, SQ disabled 60 dB
	System Distortion	<2% total harmonic distortion (THD) at 80% deviation
	Audio Input 1	Rear panel, one (1) Female XLR and 1/4 in combo connector, balanced, 0 / -55 dBu (line/mic) nominal input level adjustable, -30 / +21 dBu (line/mic) maximum input level, impedance 20k / 1k ohms (line/mic), phantom power +12 VDC
	Audio Input 2	Rear panel, two (2) phono connectors, unbalanced, -10 / +10 dBu nominal input level adjustable, +30 dBu maximum, impedance 100k ohms
	Audio Processing (Process)	Compression can be turned on/off. Slope internally adjustable from 1:1 to 4:1. Default 2:1
	Contour	Cuts and boosts frequencies above 5 kHz
Combined Audio Output (Mix)	Input 1 and input 2, mixed output (rear panel), two (2) phono connectors, unbalanced, -10 dBu nominal output level, +15 dBu maximum, impedance 10 ohms	
Headphone Output (Monitor)	Front panel, one (1) 3.5 mm (0.14 in.) stereo connector, unbalanced, adjustable output level, +3 dBu maximum, impedance 10 ohms	
Controls & Indicators	Front Panel	Power, Test Tone on/off, Channel up/down, Input Levels, Mix Level, Contour, Monitor volume control
	Rear Panel	*Input 1 Level, (Line, Mic, Mic-Phantom Power), Input 2 level (-10 / +10 dBu), RF power level (low, mid, high)*
	Programming	Process on/off, SQ on/off, channel lock
	Input1, Input 2, Mix Level VU	Indicates Input 1, Input 2, and Mix audio levels; 10 segment LED's (8 green, 2 red)
	Processing	Indicated by a green LED when on (front panel)
	RF Power	Indicated on the LCD (low, mid, high)
	LCD Display	Channel Designation, lock status, RF power level, programming (front panel)
	Test Tone	Red LED illuminates when test tone is enabled.
Power	Power Supply	In line power supply (Listen part number LA-207)
	Power Supply Input	Input: 100-240 VAC, 50-60 Hz, 0.4 A
	Power Supply Output	Output: 12 VDC, 1.3 A, 15.6 W
	Power Supply Connector	Output Connector: 0.02 in (5.0 mm) OD, 0.01 in. (2.5 mm) ID, barrel type
	Power Supply Compliance	UL, CE, GS, TÜV, RoHS
Physical	Dimensions (H x W x D)	1.75 x 8.50 x 9.13 in (4.5 x 21.5 x 23 cm)
	Color	Dark Grey with white silk screening
	Unit Weight	2.6 lbs. (1.2 kg)
	Shipping Weight	6 lbs. (2.7 kg)
	Rack Mounting	One (1) rack space height, 1/2 rack space wide. One (1) or two (2) transmitters can be mounted in one rack space, optional rack mount (LA-326)
Environmental	Temperature - Operation	-10 °C (14 °F) to +40 °C (104 °F)
	Temperature - Storage	-20 °C (-4 °F) to +50 °C (122 °F)
	Humidity	0 to 95% relative humidity, non condensing

*Specifications are subject to change without notification.