

LT-803-072-01

## Stationary 3-Channel RF Transmitter (72 MHz)



### Configuration:

LT-803-072-01 Stationary 3-Channel RF Transmitter (72 MHz) (North America)

### Product Overview:

The LT-803-072 Stationary 3-Channel RF Transmitter can be used for assistive listening in a variety of venues. The transmitter offers universal inputs ensuring your ability to interface with any audio source i.e. mixer, microphone, MP3 player, or CD. The signature Look & Listen LCD shows channel, lock, and RF power. The LT-803-072 comes with a power supply (LA-207).

### Highlights:

- Economical price - backed by Listen's exceptional service and support
- Three (3) channels - makes it simple to install, manage and use
- 100% Digital - Listen transmitters are digitally-tuned so the transmission won't drift
- Limited Lifetime Warranty
- Look & Listen™ LCD shows channel, channel lock, and signal strength
- Reliable clear sound quality - 62 dB Signal-to-noise ratio (SNR)
- Balanced/Unbalanced Inputs - you can interface with any audio source on the market
- Designed for installation - rack mountable with optional remote antennas and rack mount kit make installation easy and service reliable
- Auto Processor - to condition the audio for voice/music prior to transmission
- VU level meter and test tone - simply makes the installation easier to set-up
- 30-day no obligation demonstrations available
- Many accessory options make Listen products ideal for a wide range of applications

### Includes:

- One (1) LT-803-072 Stationary 3-Channel RF Transmitter (72 MHz)
- One (1) Power supply
- One (1) Quick reference card

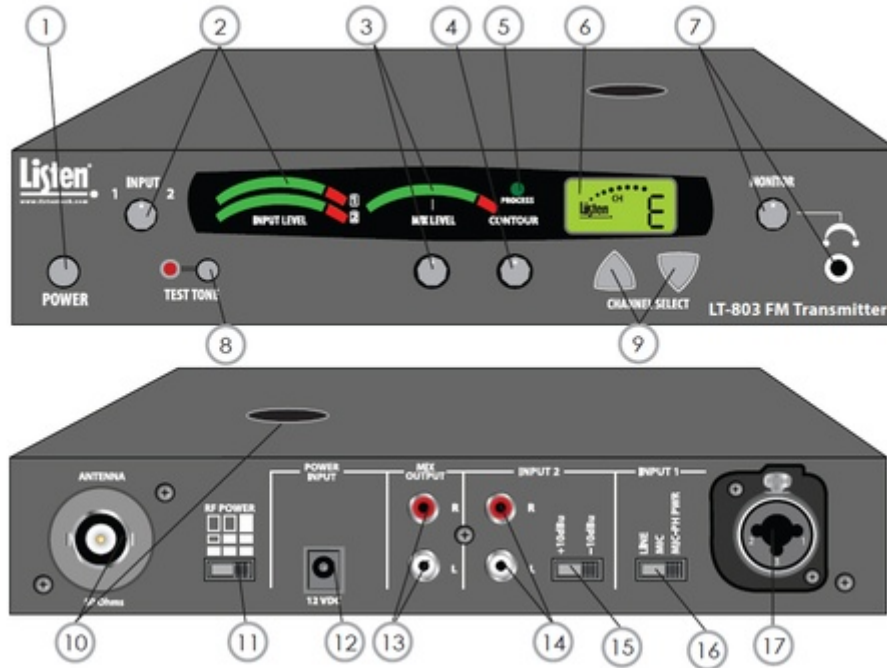
### Architectural Specification:

The stationary RF transmitter shall be capable of broadcasting on one of any three channels - A (72.100 MHz), E (72.900 MHz) or H (75.900 MHz). The transmitter shall have a SNR of 62 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 15k Hz,  $\pm 3$  dB at 72 MHz. It shall have two (2) mixing audio inputs. The device shall have the

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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-803-072 is specified



**Stationary 3-Channel RF Transmitter (72 MHz) Product Features:**

1. POWER BUTTON: Easy access from the front to turn unit On/Off.
2. INPUT 1 & 2 AND INPUT LEVEL INDICATORS: Adjust audio levels of Input 1 and 2. Dual VU meters shows audio Input 1 and 2 levels.
3. MIX LEVEL & MIX TRANSMIT LEVELS: Mix Level control sets level of mixed audio. VU meter shows the output level of mixed audio.
4. CONTOUR: Contour equalization Cuts/Boosts frequencies above 5 kHz.
5. PROCESS LED: Processing (automatic gain control and compression) can be turned on and off from the front panel.
6. LCD DISPLAY: Shows channel selected, channel lockout, and RF power.
7. MONITOR LEVEL: Earphone jack and volume control to check audio integrity of transmission source.
8. TEST TONE: The test tone level adds flexibility when setting up and testing system.
9. CHANNEL SELECT: UP/DOWN channel selection of 3 channels (A, E, H).
10. RF ANTENNA OUTPUTS: Top mount, rear mount, and remote antenna options.
11. RF POWER LEVEL: Multiple transmitter power settings (full, 1/2 and 1/4) with indication on LCD display.
12. POWER INPUT: In-line power supply (included) attaches.
13. AUDIO OUTPUTS: Two (2) phono connectors for a mixed output of Inputs 1 and 2.
14. AUDIO INPUT 2: Two (2) unbalanced phono audio inputs. Select either +10 dBu or -10 dBu.
15. INPUT 2 LEVEL SWITCH: Set switch to match the level of Input 2 source.
16. INPUT 1 LEVEL SWITCH: Set switch for line or mic level. Phantom power available in Mic-PH power position.
17. AUDIO INPUT 1: Balanced XLR / 1/4 inch audio input. Select either mic, line, or mic phantom power level for input. Electret (Condenser) microphones can be used with Input 1, mic, and phantom power.

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Audio

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Frequency Response	50 Hz - 15 kHz ( $\pm 3$ dB)
Signal-to-Noise Ratio	62 dB (A-Weighted)
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 ohm (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 ohm
Audio Processing	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
Audio Output	Input 1 and input 2, mixed output (rear panel), two (2) phono connectors, unbalanced, -10 dBu nominal output level, +15 dBu maximum, impedance 10 ohm
Headphone Output	Front panel, one (1) 3.5 mm (0.14 in.) stereo connector, unbalanced, adjustable output level, +3 dBu maximum, impedance 10 ohm
Controls	
User Controls	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)
Internal Adjustments	Compression ratio for audio processor
Programming	Process on/off, channel lock
Indicators	
Audio Input Status LEDs	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	Channel Designation, lock status, RF power level (front panel)
Test Tone	Red LED illuminates when test tone is enabled.
RF	
Antenna Connector	BNC
Frequency Range	(A) 72.100, (E) 72.900, (H) 75.900
Number of Channels	3 wide band



Frequency Accuracy	± .005% stability 32 to 122° (0 to 50°C)
Transmitter Stability	50 PPM
Transmission Range	Up to 1,500 ft. (457.20 m)
Output Power	80,000 uV at 3 m
Antenna Type	Various antennas available
Power	
Power Supply	In line power supply, Listen part number LA-207 (Line cord is determined by the each Country's AC power standards)
Power Supply Input	100-240 VAC, 50-60 Hz, 0.4 A
Power Supply Output	12 VDC, 1.3 A, 15.6 W
Power Supply Connector	0.02 in (5.0 mm) OD, 0.01 in. (2.5 mm) ID, barrel type
Compliance	UL, CE, GS, TÜV, RoHS
Physical	
Height	1.75 in. (4.5 cm)
Width	8.50 in. (21.5 cm)
Depth	9.13 in. (23 cm)
Color	Dark Grey with white silk screening
Weight	2.6 lbs. (1.2 kg)
Unit Weight with Power Supply	4.5 lbs. (2.0 kg)
Shipping Weight	6.0 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)
Relative Humidity	0 to 95% relative humidity, non condensing
Compliance	
RF	FCC Part 15, Part 90, Industry Canada