



Configuration:

LT-82-01 Stationary IR Transmitter (North America)*

LT-82-02 Stationary IR Transmitter (Asia, UK)*

LT-82-03 Stationary IR Transmitter (Euro)*

LT-82-04 Stationary IR Transmitter (Australia)*

*01, 02, 03, and 04 designation refers to international plug type (type B, G, C, and I) for the power supply.

Product Overview:

The ListenIR 1-Channel Transmitter (LT-82) is the heart of a stationary IR listening system. It takes the desired audio signal and transmits the signal via coaxial cable to one (1) or more IR radiator-emitters (LA-140). The LT-82 can be operated in mono or stereo on one (1) of four (4) different carriers; up to four (4) LT-82 units may be connected to provide up to four (4) mono or stereo carriers to the radiator(s). The LT-82 generates DC power to power up to two (2) LA-140 radiator-emitters. Two (2) LT-82 units can be rack mounted in a single rack space using the LA-326 rack mounting kit. The LT-82 is used for government compliance (such as ADA), assistive listening, language interpretation, live theatre, houses of worship, courtrooms, secure rooms and for auditory description.

Highlights:

- Secure wireless communication - ideal for applications where isolation of the signal is important
- Up to four (4) channels mono, or four (4) channels stereo - no need to sacrifice multiple channels to achieve stereo transmissions (one LT-82 is required for each channel)
- Transmitter can power two (2) radiator/emitters (LA-140) using CAT-5 cabling
- Easy to specify, install and use
- Outstanding performance - ensures crystal clear sound for listeners
- Limited Lifetime Warranty
- True stereo audio (left and right) is transmitted on a single carrier frequency

Includes: One (1) LT-82 ListenIR 1-Channel Transmitter
 One (1) LA-205 30 VDC Extension/Replacement Power Supply for LA-140/LT-82
 One (1) LA-89 Interconnection Coaxial Cable
 One (1) Quick Reference Card

Product Specification: ListenIR 1-Channel Transmitter	
Audio	
Frequency Response	63 Hz - 15 kHz (+/- 3 dB)
Signal-to-Noise Ratio	Mono: > 60 dB Stereo: > 52 dB
System Distortion	< 2% total harmonic distortion (THD)
Audio Input 1	Mono Input (Rear Panel). Female-XLR and 1/4 in. combo connector, balanced, 0/-55 dBu (line/mic) nominal input level adjustable; +21/-30 dBu (line/mic) maximum input level; impedance 20k/1k ohms (line/mic); phantom power +12 VDC
Audio Input 2	Stereo or Mono Input (Rear Panel). Two (2) Phono connectors, unbalanced,

Product Specification: ListenIR 1-Channel Transmitter	
	-10/+10 dBu nominal input level adjustable, +30 dBu maximum, impedance 100k
Audio Processing	Compression can be turned on/off.
Contour	Cuts and boosts frequencies above 5 kHz
Monitor Output	Front panel. One (1) 3.5 mm (0.14 in.) connector, unbalanced, adjustable output level, +7 dBu maximum, impedance 10 ohms. 100 mW, 32 ohms
Output/s	Input 1 and Input 2 Mixed Output (Rear panel). Two (2) Phono connectors, unbalanced, -10 dBu nominal output level, +19 dBu maximum, impedance 10 ohms
Controls	
Programming	Stereo on/off, Processing on/off
Front Panel	Power, Test Tone on/off, Channel up/down, Input Level, Transmit Level, Contour, Monitor Level
Rear Panel	Input 1 Level (Line, Mic, Mic-Phantom Power), Input 2 Level (-10/+10 dBu)
Internal Adjustments	Compression ratio for audio processor. Slope adjustable from 1:1 to 4:1. Default 2:1
Indicators	
LCD	Channel designation, lock status, RF Carrier, programming (front panel)
Unit Power	Red LED illuminates when the unit is powered up (front panel)
Input 1, Input 2, Transmit Level	Indicates Input 1, Input 2, and Transmit audio levels. 10 segment LED's (8 green, 2 red)
Stereo	Indicated by a green LED when on (front panel)
Processing	Indicated by a green LED when on (front panel)
RF Carrier	Indicates carrier is active on the LCD Display (front panel)
Test Tone	Red LED illuminates when test tone enabled (front panel)
RF	
Input/s	One (1) BNC connector, for connection from additional transmitter(s). 50 mV, 50 ohm, -15 dBm
Output/s	Two (2) BNC connectors, for connection to radiator(s) and/or additional transmitter(s). 50 mV, 50 ohm, -15 dBm
Carrier Frequencies	2.3 MHz, 2.8 MHz, 3.3 MHz, 3.8 MHz
Number of Channels	Four (4) channels. Selectable one (1) channel per transmitter (mono or stereo)
Frequency Accuracy	+/- .005% stability 0 to 50 °C
Carrier Shut Off	Carrier will shut off when no audio is present for 30 minutes to preserve radiator life.
Transmitter Stability	50 PPM
Power	
Power Supply	In-line switching mode power supply, Listen part number LA-205
Power Supply Input	100-240 VAC, 47-63 Hz
Power Supply Output	30 VDC, 1.5 A
Power Supply Connector	RJ-45
Power Output	Two (2) RJ-45 jacks. For remote powering up to two (2) radiators

Product Specification: ListenIR 1-Channel Transmitter	
Physical	
Width	8.50 in. (21.5 cm)
Height	1.75 in. (4.5 cm)
Depth	9.13 in. (23 cm)
Color	Dark Grey
Unit Weight with Power Supply	3.8 lbs. (1.72 kg)
Shipping Weight	6.0 lbs. (2.7 kg)
Rack Mounting	One (1) rack space high (1U), 1/2 rack space wide. One (1) or two (2) transmitters can be mounted in a single rack space. Optional Rack mount (LA-326) not included.
Weight	2.6 lbs. (1.18 kg)
Power Line Cord	North America, Type B, (LT-82-01) Asia, UK, Type G, (LT-82-02) Euro Type J, (LT-82-03)
Environmental	
Temperature - Operation	14 °F (-10 °C) to +104 °F (40 °C)
Temperature - Storage	-4 °F (-20 °C) to +122 °F (50 °C)
Relative Humidity	0 to 95% relative humidity, non-condensing
Compliance	
Standards	FCC Part 15, Industry Canada, CE, RoHS, UL