



**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 heart of the Listen Technologies ListenIR system is the LT-82 single-channel transmitter. Capable of operating in either mono or stereo modes, the LT-82 transmits your audio signal to and provides DC power for one or more LA-140 infrared radiator/emitter units through a standard CAT-5 cable. Plus, units can be combined to offer up to four (4) channels of mono or stereo audio for expanded applications.

The LT-82 transmitter is an ideal infrared transmitter for a wide range of assistive listening needs, including theaters, houses of worship, language interpretation, and more.

**Highlights:**

- Expandable and affordable transmitter unit for infrared assistive listening systems
- Provides DC power for up to two (2) LA-140 radiator/emitter units via standard CAT-5 cabling
- Audio signal is provided to the LA-140 radiator/emitter units via RG-58 coaxial cable
- Transmits up to four (4) channels of mono or stereo audio (one channel per LT-82 unit)
- Crystal-clear and secure audio performance for venues, houses of worship, meetings, conference rooms, and more

**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
<b>Controls</b>	
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
<b>Indicators</b>	
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)
<b>RF</b>	
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
<b>Power</b>	
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	
<b>Physical</b>	
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)
<b>Environmental</b>	
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
<b>Compliance</b>	
Standards	FCC Part 15, Industry Canada, CE, RoHS, UL