User Manual

LT-84 ListenIR Transmitter/Radiator Combo
LA-141 ListenIR Expansion Radiator
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Safety Cautions! ⚠️

**CAT-5e Cable Safety:**
Do NOT Plug the LT-84 (ListenIR Transmitter/Radiator Combo) CAT-5e cable into anything other than an LA-141 (ListenIR Expansion Radiator). The LT-84 CAT-5e Expansion Output RJ-45 connection is proprietary and is not compatible with Ethernet or any other system. Failure to comply with this caution can damage the LT-84, LA-141 or other equipment and will void the warranty.

**Hearing Safety:**
The LT-84 is designed to be used with Listen Technologies receivers. These receivers are designed to amplify audio to a high volume level which could potentially cause hearing damage if used improperly. To protect your hearing, make sure the volume is turned down before putting on the ear speaker or headphones, then adjust the volume up to the minimum setting required to hear clearly. Do not allow children or other unauthorized individuals to have access to this product without supervision.

**Medical Device Safety:**
Before using Listen Technologies receivers with an implantable or other medical device, consult your implantable or other medical device physician or manufacturer. Always make sure you are using this product in accordance with the safety guidelines established by your physician or the implantable device manufacturer.

**Recycling Instructions**

**Recycling:**
Help Listen Technologies protect the environment by taking the time to dispose of your equipment properly.

**Product Recycling Instructions:**
Please do NOT dispose of your Listen Technologies equipment in the household trash. Please take the equipment to an electronics recycling center; OR, return the product to the factory for proper disposal.

**Battery Recycling Instructions:**
Please do NOT dispose of batteries in the household trash. Please take the batteries to a retail or community collection point for recycling.
Compliance Information

No FCC license or radio approval is required to operate this equipment.

Compliance Notice, FCC and Industry Canada Statements

Compliance Notice

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) These devices may not cause harmful interference, and (2) these devices must accept any interference received, including interference that may cause undesirable operation.

FCC Statement

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The user is cautioned that changes and modifications made to the equipment without the approval of manufacturer could void the user’s authority to operate this equipment.

Industry Canada Statement

This equipment complies with ICES-003 class B. CAN ICES-3 (B)/NMB-3(B)
System Overview

The LT-84 is an all-in-one two channel infrared (IR) transmitter and radiator (Transmitter/Radiator Combo) packed into a single mountable enclosure. The LT-84 IR radiator is located behind the IR transparent front panel and provides line-of-sight coverage of 30,000 ft² (2787 m²) with LR-4200-IR/LR-5200-IR receivers or 7,500 ft² (697 m²) with LR-42/LR-44 receivers.

The LT-84 is perfect for high-quality audio applications like assistive listening, audio description or language interpretation in corporate boardrooms, courtrooms, training rooms, classrooms, and theaters. Its flexible audio inputs accept microphone, consumer and line level inputs which are all mixed to the modulated IR transmission. IR receivers then detect the modulated IR transmission and convert the IR signals back into an audio signal and presents it to headphones.

For better line of sight coverage or for coverage in larger areas the LT-84 can be combined with up to four (4) LA-141 Listen IR Expansion Radiators. The LA-141s are connected in a daisy chain fashion to the LT-84 via a **24 AWG** unshielded CAT-5e cable with attached ferrite core. A maximum of two (2) LA-141s can be connected to each expansion link output on the LT-84 with a maximum cable length of 100 ft. (30 m).
LT-84 ListenIR Transmitter/Radiator Combo

Package Contents
(1) LT-84 ListenIR 2-Channel Transmitter/Radiator Combo
(1) LA-210 12 VDC Universal Power Supply Power Cord
(1) LA-344 Mounting Hardware
(2) Phoenix Type Connectors
(1) Quick Start Guide
(1) LA-303 Multi-Lingual Assistive Listening Notification Sign

LT-84 Rear View Quick Reference
LA-141 ListenIR Expansion Radiator

Package Contents
(1) LA-141 ListenIR Expansion Radiator
(1) 25 ft. (7.6 m) CAT-5e Cable
(1) Snap-on Ferrite Core
(1) LA-344 Mounting Hardware
(1) Quick Start Guide

LA-141 Rear View Quick Reference

LA-141 Rear View

- Safety/Security Cable Slot
- Indicator Lights On/Off
- Channel 1 Delay Compensation
- Channel 2 Delay Compensation
- Expansion Link In/Out RJ-45
- Amber LED (Status Indicator)
- Green LED (Power Indicator)
LT-84 and LA-141 Coverage

The units emit a beam of infrared light from the front panel. Infrared light is not visible to the human eye. Below is a scaled diagram of the typical line-of-sight IR pattern or “footprint” emitted from the units. When using a unit in single channel transmit mode the coverage area is 30,000 ft\(^2\) (2787 m\(^2\)) and in 2 channel transmit mode the coverage area is 15,000 ft\(^2\) (1394 m\(^2\)). Use the diagrams below when evaluating a given space to determine the number of units required and placement of those units for best line-of-sight coverage with an LR-4200-IR or LR-5200-IR receiver.

**Figure 1:** LT-84 or LA-141 Single Unit Coverage Pattern “footprint” 1 & 2 Channel Transmission

**Figure 2:** LT-84 and LA-141 Single Channel Coverage Pattern “footprint” from same emission point (40% increase)
**Figure 3:** LT-84 and LA-141 Single Channel Coverage Pattern “footprint” overlapping 50 ft. (15.24 m) apart

![Diagram of LT-84 and LA-141 Single Channel Coverage Pattern](image1)

**Figure 4:** Single Channel Coverage Pattern “footprint” same emission point at an angle of 15 degrees off axis

![Diagram of Single Channel Coverage Pattern at 15 degrees off axis](image2)

**Figure 5:** Single Channel Coverage Pattern “footprint” same emission point at an angle of 30 degrees off axis

![Diagram of Single Channel Coverage Pattern at 30 degrees off axis](image3)
**Designing a System**

Use the following steps when designing an IR system:

1. Determine the number of audio channels that will be used (1 or 2).
2. Determine the room size and shape.
3. Use the room size and shape information along with the appropriate 1 or 2 channel coverage pattern footprint to overlay the footprint on the room dimensions and determine the number of units required and the placement of those units to cover the desired listening audience.

Best performance is achieved:

- When radiators face and have direct line-of-sight to audience.
- When a system provides over-lapping coverage (like a sprinkling system).
- When special coverage is provided for shaded areas like under a balcony.
- When mounted above and angled down into the listening audience 9 – 16 ft. (2.8 - 4.9 m) high and at an angle between 10 and 30 degrees.

*Examples below are provided for design concept only and do not represent the actual LT-84 coverage pattern “footprint”.*
Flexible Mounting Hardware Instructions

LT-84 & LA-141 Universal Mounting Hardware Kit

A universal mounting kit is supplied to simplify the mounting process for the LT-84 and LA-141. This kit contains the components for mounting to a flat surface wall or ceiling, attaching to a drop ceiling grid T bar or connecting units together. Please refer to the diagram below.

Mounting Hardware Pieces

Threaded Mounting Socket ¼” x 20 (6mm x 1.0 thread)

The LT-84/LA-141 have a ¼” x 20 thread (6mm x 1.0 thread) hole located in the bottom and top of the enclosure. This threaded hole is used to attach the units to the provided universal mounting kit or to any user provided mounting device using a ¼” x 20 thread (6mm x 1.0 thread). Refer to the diagrams below of ceiling and wall mounting using the universal kit provided.
Wall Surface Mounting Example

Wall Mount

Ceiling Surface Mounting Example

Ceiling Mount

Solid ceiling surface or T bar mounting

Mounting Two Units with Linking Mount Example

or

Linking Mount
Interconnection and Control

The LT-84 is a two (2) channel IR Transmitter/Radiator. Separate input and control sections are located on the rear panel of the LT-84 to accommodate the two (2) channel transmission. Refer to the diagram below for location of these two separate channel control areas, power input, and expansion link output RJ-45s.

Connection of the external power adaptor

Power for the LT-84 is provided by a 12 VDC 4A universal switching power supply. The diagram below highlights the connection point for power and the associated power switch.

1. The supplied power adaptor is an in line universal switching power supply that can be used with an AC power source from 100 – 240 VAC, 50/60Hz. The overall length of the line cord and DC power cable is 10 ft. (3 m). Note that if the LT-84 is located further than 10 ft. (3 m) from the nearest AC outlet, provisions will need to be made for extending the power.

2. The Power Switch ON/OFF control is a three (3) position switch located to the right of the power input connector.
   a. In the “top” position the unit is turned ON and the indicator lights are active.
   b. In the “middle” position the unit is turned ON and the indicator lights are NOT active.
   c. In the “bottom” position the LT-84 and LA-141 are OFF.
Connection of External Audio Sources

Each channel has the option for three (3) audio connections. The interconnection and control of each channel is identical. We will refer to the interconnection and control of channel 1 only. Refer to the diagram below for connection of audio sources.

1. The left side of the channel interconnection is a 3.5mm tip sleeve condenser microphone level input. This is a -30 dBu nominal microphone level input with a 5 VDC bias supply. Any of Listen's microphones may be connected to this input. Note that a 3.5mm extension cable will most likely be required when using the microphone input.

2. RCA unbalanced stereo audio input is provided through two phono connectors. These are a -10 dBu nominal level unbalanced input and the two inputs are summed together.

3. A balanced audio input is provided through the three (3) pin Phoenix type connector. This is a +4 dBu nominal level balanced input.

4. To the right of the balanced input is the audio input level adjustment control. This control rotates clockwise to increase the audio level, counter clockwise to decrease the audio level. From the factory this adjustment is set fully counter-clockwise.

5. A red and green LED located to the right of the level adjustment is used to determine the proper level adjustment. With a typical audio source connected adjust the audio level adjustment up or down until the green LED is solid green and the red LED flickers red occasionally with peaks in the audio.

Note: LT-84 will enter Power Save Mode after 15 minutes of no audio. This state is indicated by the Green LED (Power indicator) on the expansion link output RJ-45 flashing slowly.
IR Frequency Selection/Control

The LT-84 provides the ability for the user to select the IR carrier frequency to be used for transmission of the audio connected to the channel input. The carrier frequencies are at 2.3MHz, 2.8MHz, 3.3MHz, and 3.8MHz. Refer to the diagram below for selection and control of the IR carrier.

1. Located on the right side of the channel interconnection and control is the IR frequency selection. This is a four (4) position rotary selection switch. With the switch rotated to the counter clockwise stop, the IR frequency is set to 2.3MHz. Position 2 is 2.8MHz, position 3 is 3.3 MHz, and position 4 is 3.8MHz.

2. The IR Transmission On/Off switch is used to activate the IR signal transmission for this channel. In the “up” position the IR signal is active. In the “down” position the IR signal for this channel is **NOT** active.

*Note:* If both channels are active and set to the same frequency the LT-84 will indicate an error state and enter Power Save Mode. Power save mode is indicated by the Green Power Indicator LEDs flashing slowly. The error mode is indicated by 4 quick flashes on the Red Level Indicator LEDs and then turning off for 2 seconds, repeated until the error is resolved.
Listen IR Expansion Link RJ-45 Connections

The coverage area of the LT-84 can be extended by adding up to four (4) LA-141 Expansion Radiators. A maximum of two (2) LA-141s can be connected to each Expansion Link output RJ-45 on the LT-84 with a maximum daisy chained CAT-5e cable length of 100 ft. (30.5 m). **CAT-5e cable must be at least 24 AWG with the provided snap-on Ferrite Core.** Refer to the diagram below.

Set Delay Compensation. For a single channel application, set both Channel 1 and 2 Delay Compensation switches to the same setting. For a two channel application, set Delay Compensation switches channel 1 and 2 independently. Pick appropriate frequency row then move over to the overall cable distance from the LT-84 to the LA-141 being set, this is the switch setting.

<table>
<thead>
<tr>
<th>Delay Compensation Switch Setting</th>
<th>1 to 9 ft. (0.3 to 2.8 m)</th>
<th>10 to 19 ft. (3 to 5.8 m)</th>
<th>20 to 29 ft. (6 to 8.8 m)</th>
<th>30 to 39 ft. (9.1 to 11.9 m)</th>
<th>40 to 49 ft. (12.2 to 14.9 m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.3 MHz</td>
<td>0</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>2.8 MHz</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>3.3 MHz</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>3.8 MHz</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cable Length</th>
<th>50 to 59 ft. (15.2 to 18 m)</th>
<th>60 to 69 ft. (18.3 to 21 m)</th>
<th>70 to 79 ft. (21.3 to 24 m)</th>
<th>80 to 89 ft. (24.4 to 27.1 m)</th>
<th>90 to 100 ft. (27.4 to 30.5 m)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.3 MHz</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>2.8 MHz</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>3.3 MHz</td>
<td>2</td>
<td>2</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>3.8 MHz</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>
**Indicator Lights**

**Input Level indicators Channel 1 and Channel 2:**

- Green LED Off and Red LED Off – Low or no audio present, power switch is off or in the indicator lights off position
- Green LED solid and Red LED flashing – Audio is present and adjusted properly on the input
- Green LED Off and Red LED Ch1 and Ch2 flashing quickly 4 times with a 2 second off state, repeated – Frequency selectors are set to the same frequency and transmission switch is active on both channels (error state)

**LT-84 RJ-45 Green and Amber LED Indicators:**

- Green LED OFF – Power switch is Off or in the indicator lights Off position, bad power supply or not connect to AC power outlet
- Green LED solid – Power is applied to the unit
- Green LED flashing – Unit has entered Power Save Mode
- Amber LED Off – No Carrier present or problem with IR LEDs
- Amber LED solid – Carrier is present and unit is actively transmitting IR

**LA-141 RJ-45 Green and Amber LED Indicators:**

- Green LED OFF – LT-84 power switch is Off, LT-84 has entered Power Save Mode, LA-141 indicator lights switch in Off position, bad CAT-5e cable or cable is too long
- Green LED solid – Power is applied to the unit
- Amber LED Off – No Carrier present, bad CAT-5e cable or cable is too long, problem with IR LEDs
- Amber LED solid – Carrier is present and unit is actively transmitting IR
## Troubleshooting

### The LT-84 Green LED “Power Indicators” are not lit:

- Make sure the power supply is plugged into the LT-84 and plugged into an AC outlet.
- Make sure the electrical outlet is on or if using a power strip make sure it is turned on.
- Make sure the Power Switch is set to the Indicators Lights “On” position.
- Make sure the 12 VDC in-line switching power supply is lit green and that it is working.

### The LT-84’s Ch1 or Ch2 Audio “level Indicators” do not light:

- Make sure the LT-84 is plugged in.
- Make sure the Power Switch is set to the Indicator Lights “On” position.
- Make sure the audio source is active and that audio is presented to the audio input.
- Make sure the audio input is connected properly and that the level control knob is turned clockwise.

### Receivers do not pick up audio:

- Make sure the LT-84 has not entered Power Save Mode due to no active audio for 15 minutes.
- Make sure the green level indicator is solid green and the red level indicator occasionally flashes red with audio peaks.
- Make sure the receivers are operating on the same channel / frequency as the LT-84.
- Make sure the LT-84 is transmitting IR light and that the IR light is not being blocked by objects.
- If some of the receivers work but others do not, check the battery and/or earphones.

### Receiver’s audio is weak and noisy:

- Make sure the green level indicator is solid green and the red level indicator occasionally flashes red with audio peaks.
- Make sure LA-141s are connected properly and that the power and status indicator LEDs are lit solid.
- Make sure the LT-84 and LA-141’s IR light is focused towards the listening audience.
- Make sure the receiver is directed towards the LT-84 and LA-141s.
- Make sure that all units are transmitting IR light and that the IR light is not being blocked by objects.
- Add more LA-141s to increase the overall coverage.
<table>
<thead>
<tr>
<th><strong>LT-84 Stationary IR Transmitter/Radiator Combo</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Power</strong></td>
</tr>
<tr>
<td>Power Supply Type</td>
</tr>
<tr>
<td>Power Supply Input</td>
</tr>
<tr>
<td>Power Supply Output</td>
</tr>
<tr>
<td>Power Line Cord</td>
</tr>
<tr>
<td><strong>RF</strong></td>
</tr>
<tr>
<td>Carrier Frequencies</td>
</tr>
<tr>
<td>Number of Channels</td>
</tr>
<tr>
<td>Modulation</td>
</tr>
<tr>
<td>IR Power</td>
</tr>
<tr>
<td>Coverage Area</td>
</tr>
<tr>
<td>Expansion Link Output</td>
</tr>
<tr>
<td>Power Save Mode</td>
</tr>
<tr>
<td><strong>Controls</strong></td>
</tr>
<tr>
<td>Power Switch - Indicator Lights On/Off</td>
</tr>
<tr>
<td>Level Control Knob</td>
</tr>
<tr>
<td>Frequency Selector</td>
</tr>
<tr>
<td>Transmission ON/OFF</td>
</tr>
<tr>
<td><strong>Indicators</strong></td>
</tr>
<tr>
<td>Power Supply LED</td>
</tr>
<tr>
<td>Audio Level Indicators</td>
</tr>
<tr>
<td>Green LEDs - Power Indicator RJ-45</td>
</tr>
<tr>
<td>Amber LEDs - Status Indicator RJ-45</td>
</tr>
<tr>
<td><strong>Audio</strong></td>
</tr>
<tr>
<td>Microphone Input</td>
</tr>
<tr>
<td>Line Input</td>
</tr>
<tr>
<td>Line Input</td>
</tr>
<tr>
<td>Frequency Response</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Total Harmonic Distortion</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Signal-to-Noise Ratio</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td><strong>Physical</strong></td>
</tr>
<tr>
<td>Color</td>
</tr>
<tr>
<td>Dimensions (H x W xD)</td>
</tr>
<tr>
<td>Weight</td>
</tr>
<tr>
<td>Unit Weight with Power Supply</td>
</tr>
<tr>
<td>Shipping Weight</td>
</tr>
<tr>
<td><strong>Environmental</strong></td>
</tr>
<tr>
<td>Temperature - Operation</td>
</tr>
<tr>
<td>Temperature - Storage</td>
</tr>
<tr>
<td>Relative Humidity</td>
</tr>
<tr>
<td><strong>Compliance</strong></td>
</tr>
<tr>
<td>Standards</td>
</tr>
</tbody>
</table>
## LA-141 Specifications

<table>
<thead>
<tr>
<th><strong>Power</strong></th>
<th>12 VDC, provided via LT-84 Expansion Link Output RJ-45s</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Draw</td>
<td>600 mA per LA-141, maximum of two (2) LA-141s daisy chained with CAT-5e cable 24 AWG to each LT-84 Expansion Link Output</td>
</tr>
<tr>
<td><strong>RF</strong></td>
<td></td>
</tr>
<tr>
<td>Carrier Frequencies</td>
<td>2.3 MHz, 2.8 MHz, 3.3 MHz, 3.8 MHz</td>
</tr>
<tr>
<td>Number of Channels</td>
<td>Two (2) Channels</td>
</tr>
<tr>
<td>Modulation</td>
<td>FM Wideband, ±50kHz deviation max, 50 μS pre-emphasis</td>
</tr>
<tr>
<td>IR Power</td>
<td>1.49 W</td>
</tr>
<tr>
<td>Coverage Area</td>
<td>30,000 ft² (2787 m²) single channel with LR-4200-IR/LR-5200-IR receivers or 7,500 ft² (697 m²) with LR-42/LR-44 receivers.</td>
</tr>
<tr>
<td>Expansion Link In/Out</td>
<td>Two (2) RJ-45 connectors, CAT-5e cable 24 AWG with snap-on Ferrite Core, daisy chain of 100 ft. maximum cable length</td>
</tr>
<tr>
<td>Power Save Mode</td>
<td>Shuts off carrier when no audio is present for 15 minutes</td>
</tr>
<tr>
<td><strong>Controls</strong></td>
<td></td>
</tr>
<tr>
<td>Indicator Lights On/Off Switch</td>
<td>Two (2) position switch - Indicator Lights OFF, Indicator Lights ON</td>
</tr>
<tr>
<td><strong>Indicators</strong></td>
<td></td>
</tr>
<tr>
<td>Green LEDs - Power Indicator RJ-45</td>
<td>Solid Green indicates power is applied to unit</td>
</tr>
<tr>
<td>Amber LEDs - Status Indicator RJ-45</td>
<td>Solid Amber indicates carrier is present and IR is being transmitted</td>
</tr>
<tr>
<td><strong>Physical</strong></td>
<td></td>
</tr>
<tr>
<td>Color</td>
<td>Black</td>
</tr>
<tr>
<td>Dimensions (H x W x D)</td>
<td>1.5 x 10.7 x 3.9 in. (3.81 x 27.2 x 10.5 cm)</td>
</tr>
<tr>
<td>Weight</td>
<td>0.6 lbs. (0.28 kg)</td>
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<tr>
<td>Shipping Weight</td>
<td>3.0 lbs. (1.4 kg)</td>
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<tr>
<td><strong>Environmental</strong></td>
<td></td>
</tr>
<tr>
<td>Temperature - Operation</td>
<td>14 °F (-10 °C) to +104 °F (40 °C)</td>
</tr>
<tr>
<td>Temperature - Storage</td>
<td>-4 °F (-20 °C) to +122 °F (50 °C)</td>
</tr>
<tr>
<td>Relative Humidity</td>
<td>0 to 95% relative humidity, non-condensing</td>
</tr>
<tr>
<td><strong>Compliance</strong></td>
<td></td>
</tr>
<tr>
<td>Standards</td>
<td>FCC Part 15, Industry Canada, CE, RoHS, WEEE, CUL</td>
</tr>
</tbody>
</table>
**Warranty Information**

Listen Technologies Corporation (Listen) warrants its transmitters and receivers (LT-82, LT-700, LT-800, LT-803, LR-100, LR-42, LR-44, LR-200, LR-300, LR-400, LR-500, LR-4200, LR-5200) to be free from defects in workmanship and material under normal use and conditions for the useful lifetime of the product from date of purchase.

Listen warrants its Listen IR Radiators (LA-140, LT-84, LA-141) to be free from defects in workmanship and material under normal use and conditions for three years from the date of purchase.

Listen warrants its Digital IR products (T8, T16, RAD25, R8, R32) to be free from defects in workmanship and material under normal use and conditions for two years from the date of purchase.

Listen warrants its Noise Canceling Microphone (LA-270) to be free from defects in workmanship and material under normal use and conditions for one year from date of purchase.


All other products and accessories are warranted for 90 days from date of purchase.

This warranty is only available to the original end purchaser of the product and cannot be transferred.

Warranty is only valid if warranty card has been returned within 90 days of purchase. This warranty is void if damage occurred because of misuse or if the product has been repaired or modified by anyone other than a factory authorized service technician. Warranty does not cover normal wear and tear on the product or any other physical damage unless the damage was the result of a manufacturing defect. Listen is not liable for consequential damages due to any failure of equipment to perform as intended.

Listen shall bear no responsibility or obligation with respect to the manner of use of any equipment sold by it. Listen specifically disclaims and negates any warranty of merchantability or fitness of use of such equipment including, without limitation, any warranty that the use of such equipment for any purpose will comply with applicable laws and regulations. The terms of the warranty are governed by the laws of the state of Utah.

In the first ninety days after purchase, any defective product will be replaced with a new unit. After ninety days, Listen will at its own discretion either repair or replace transmitters and receivers with a new unit or a unit of similar type and condition. Product that is not covered under warranty shall be repaired or replaced with a unit of similar type and condition based on a flat fee. Contact Listen for details.

This limited warranty, prices, and the specifications of products are subject to change without notice.
Technical Support Contact

If technical service is needed, please contact Listen. Pre-authorization is required before returning Listen products. If products were damaged in shipment, please contact the carrier, then contact Listen for replacement or repair requirements payable by the carrier.

Listen's corporate headquarters are located in Bluffdale, Utah U.S.A. and are open Monday through Friday, 8am to 5pm Mountain Time.

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