

# User's Manual

Listen Microphones

Includes:

- LA-261 Lapel Microphone
- LA-262 Over-the-Head Microphone
- LA-268 Over-the-Ear Microphone
- LA-270 Noise Canceling Microphone
- LA-272 Over-the-Head Microphone with Earphone
- LA-273 Over-the-Ear Microphone with Earphone
- LA-274 Hand Held Microphone
- LA-276 Collar Microphone
- LA-277 Conference Microphone
- LA-278 Behind-the-Head Microphone



[www.ListenTech.com](http://www.ListenTech.com)

Listen Technologies Corporation  
8535 South 700 West, Suite A  
Sandy, Utah 84070-2515 USA  
Telephone: +1.801.233.8992  
Toll Free (North America): 1.800.330.0891  
Fax: +1.801.233.8995  
E-mail: [info@ListenTech.com](mailto:info@ListenTech.com)

Don't miss a single sound. Listen.

Dear Valued Customer,

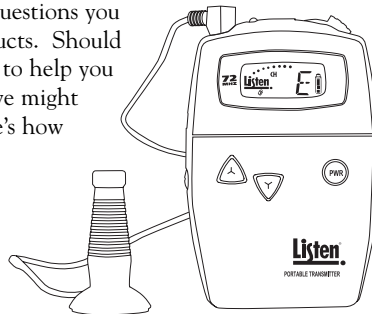
Thank you for choosing Listen! All of us at Listen are dedicated to providing you the highest quality products and prompt, efficient customer care. Our products are manufactured in an ISO-9000 factory that has been independently certified to the highest quality standards. We stand ready to answer any questions you might have during installation or in the operation of our products. Should there be any problems with your Listen products, we are ready to help you in any way we can. Should you have any comments on how we might improve our products or our service, we're here to listen. Here's how to reach us:

Telephone: +1.801.233.8992  
 Fax: 1.801.233.8995  
 Toll Free (North America): 1.800.330.0891  
 E-Mail: [support@ListenTech.com](mailto:support@ListenTech.com)  
 Web: [www.ListenTech.com](http://www.ListenTech.com)

Thank you... and enjoy your listening experience!

Best regards,

The Listen Team



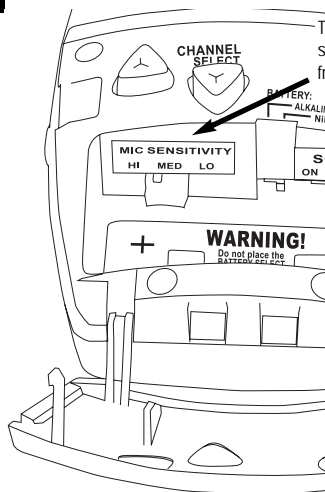
All Listen microphones are designed for use with the LT-700 portable transmitter. Only microphones sold by Listen should be used with your LT-700. Your Listen microphone will also work with other manufacturers' products that supply 3VDC phantom power.

## Table of Contents

Important Information About Microphone Sensitivity Settings .....	2
Introduction .....	3
LA-261 Lapel Microphone .....	4
LA-262 Over-the-Head Microphone .....	6
LA-268 Over-the-Ear Microphone .....	8
LA-270 Noise Canceling Microphone .....	10
LA-272 Over-the-Head Microphone with Earphone .....	12
LA-273 Over-the-Ear Microphone with Earphone .....	13
LA-274 Hand Held Microphone .....	14
LA-276 Collar Microphone .....	16
LA-277 Conference Microphone .....	18
LA-278 Behind-the-Head Microphone .....	20
Troubleshooting .....	22
Product specifications for all microphones .....	24
Warranty .....	27

## Important Information About Microphone Sensitivity Settings

When you connect your Listen Microphone to your LT-700 Portable Transmitter, you must make sure that the microphone sensitivity switch (located inside the front cover of the LT-700) is set to the sensitivity specified for your microphone. If this switch is not in the correct position, your audio may sound low or distorted. Please note the sensitivity setting for your microphone and check the switch setting in the LT-700 prior to using your Listen equipment.

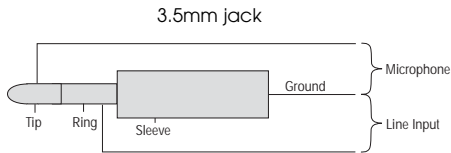


The microphone sensitivity switch is located inside the front cover of the LT-700.

Part #	Microphone	Type	Mic sensitivity Switch Position
LA-261	Lapel Microphone	omni-directional	MID
LA-262	Over-the-head Microphone	uni-directional	MID
LA-268	Over-the-ear Microphone	omni-directional	MID
LA-270	Noise Canceling Microphone	uni-directional	MID
LA-272	Over-the-head Mic with Earphone	uni-directional	MID
LA-273	Over-the ear Mic with Earphone	uni-directional	MID
LA-274	Hand-held Microphone	omni-directional	HI
LA-276	Collar Microphone	uni-directional	HI
LA-277	Conference Microphone	omni-directional	MID
LA278	Behind-the-head Microphone	uni-directional	MID

## Introduction

Your Listen microphone is designed to provide high quality audio when used with a Listen LT-700 Portable Transmitter. Listen microphones will work with LT-700 units on either 72 MHz or 216 MHz. Your Listen microphone will also work with any product that supplies 3VDC phantom power and conforms to the diagram below.

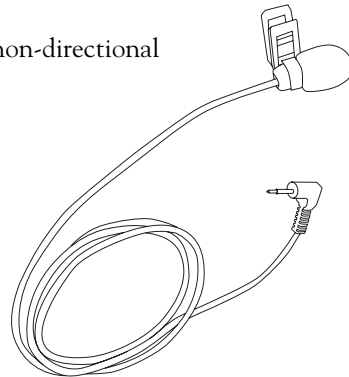
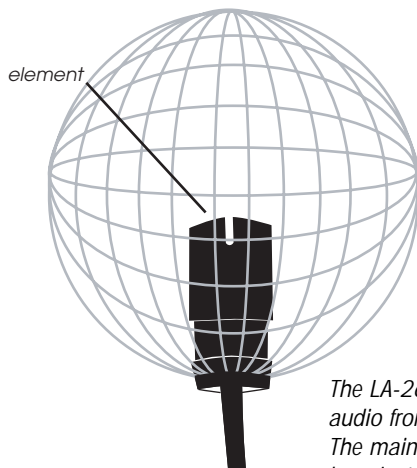


To achieve the desired audio quality from your Listen microphone, it is important to use it as instructed. The instructions for your microphone provide guidelines on placement and use.

If you experience trouble with your microphone, check the troubleshooting section of this manual first to try to resolve the problem. If you are still having difficulties, contact Listen support (support information available on inside cover of this manual).

## Using the LA-261 Lapel Microphone

The LA-261 Lapel Microphone is a high performance, non-directional microphone that clips on your collar or lapel.



*The LA-261 has an omni-directional pick-up pattern. This means that audio from a broader area can be picked up by the microphone element. The main advantage of this type of microphone is that it does not have to be oriented directly towards your mouth for good audio pickup.*

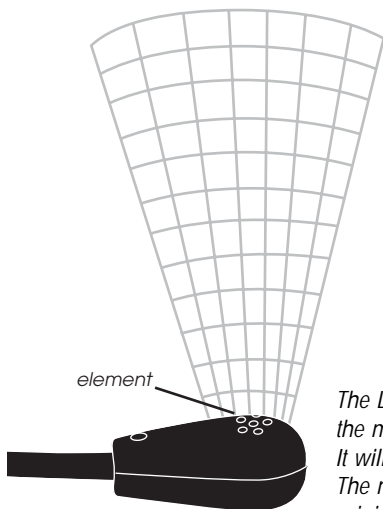
## Using the LA-261 Lapel Microphone

- Set the microphone sensitivity switch (located inside front cover of the LT-700 Portable Transmitter) to the MID position.
- Clip the microphone as close as possible to your mouth. For best results the mic element should be no more than 6 inches from your mouth. This will help to ensure that the microphone picks up your voice rather than room noise.
- Make sure the microphone is not rubbing on your face or clothing.
- Connect the plug firmly to the microphone connector on the LT-700.

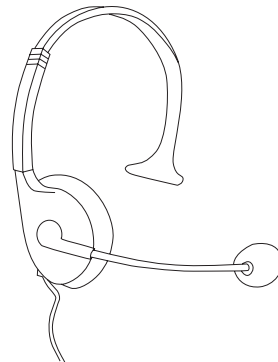


## LA-262 Over-the-Head Microphone

The LA-262 Over-the-Head Microphone provides high quality audio pick-up with its directional boom microphone.



*The LA-262 has a uni-directional pick-up pattern. This means that the microphone's element must be oriented towards your mouth. It will not pick up audio very well from the side of the microphone. The main advantage of this type of microphone is that it helps minimize feedback and picks up less environmental noise.*





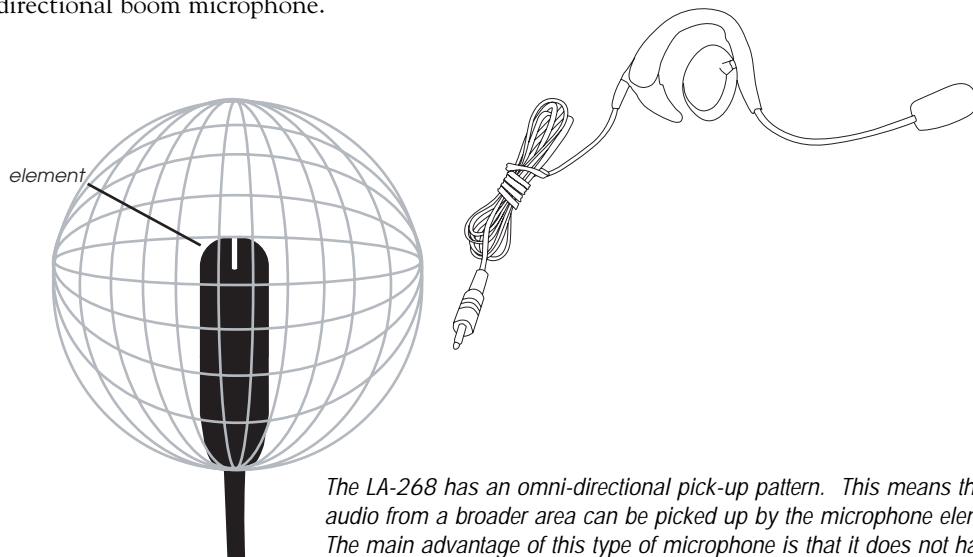
## Using the LA-262 Over-the-Head Microphone

- Set the microphone sensitivity switch (located inside front cover of the LT-700 Portable Transmitter) to the MID position.
- Place the unit over your head and position the microphone as close as possible to your mouth. For best results the mic element should be 1 to 2 inches from your mouth. This will help to ensure that the microphone picks up your voice rather than room noise.
- Make sure the microphone is not rubbing on your face or clothing.
- Connect the plug firmly to the microphone jack on the LT-700.



## LA-268 Over-the-Ear Microphone

The LA-268 Over-the-Ear Microphone high provides quality audio pick-up with its directional boom microphone.



*The LA-268 has an omni-directional pick-up pattern. This means that audio from a broader area can be picked up by the microphone element. The main advantage of this type of microphone is that it does not have to be oriented directly towards your mouth for good audio pickup.*

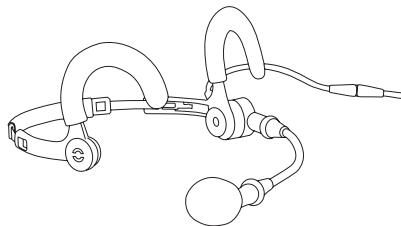
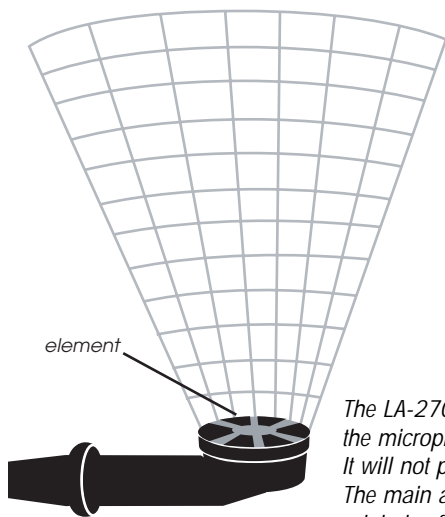
## Using the LA-268 Over-the-Ear Microphone

- Set the microphone sensitivity switch (located inside front cover of the LT-700 Portable Transmitter) to the MID position.
- Place the unit over your ear and position the microphone as close as possible to your mouth. For best results the mic element should be 1 to 2 inches from your mouth. This will help to ensure that the microphone picks up your voice rather than room noise.
- Connect the plug firmly to the microphone jack on the LT-700.



## LA-270 Noise Canceling Microphone

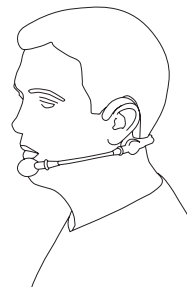
The LA-270 Noise Canceling Microphone provides high quality audio pick-up with its directional boom microphone. Its noise canceling technology makes it ideal for noisy environments such as factory tours.



*The LA-270 has a uni-directional pick-up pattern. This means that the microphone's element must be oriented towards your mouth. It will not pick up audio very well from the side of the microphone. The main advantage of this type of microphone is that it helps minimize feedback and picks up less environmental noise.*

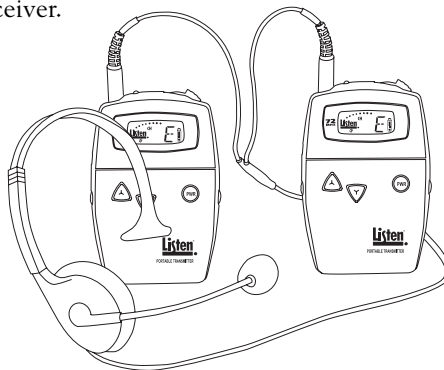
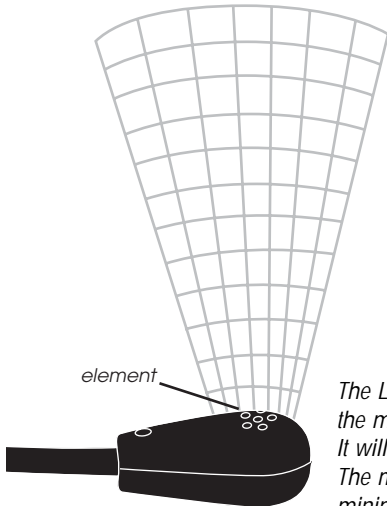
## Using the LA-270 Noise Canceling Microphone

- Set the microphone sensitivity switch (located inside front cover of the LT-700 Portable Transmitter) to the MID position.
- Place the unit over your ears, wrapping it behind your head. Position the microphone as close as possible to your mouth. For best results the mic element should be 1 to 2 inches from your mouth. This will help to ensure that the microphone picks up your voice rather than room noise.
- Connect the plug firmly to the microphone jack on the LT-700.



## LA-272 Over-the-Head Microphone with Earphone

The LA-272 Over-the-Head Microphone provides high quality audio pick-up with its directional boom microphone. It allows you to simultaneously transmit on a LT-700 and receive audio on a Listen portable receiver.



*The LA-272 has a uni-directional pick-up pattern. This means that the microphone's element must be oriented towards your mouth. It will not pick up audio very well from the side of the microphone. The main advantage of this type of microphone is that it helps minimize feedback and picks up less environmental noise.*

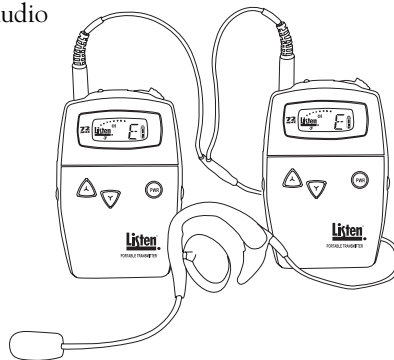
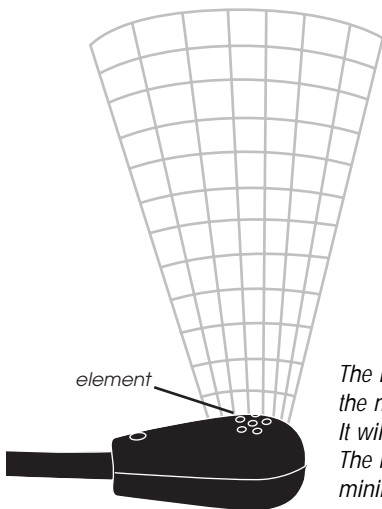
## LA-272 Over-the-Head Microphone with Earphone

- Set the microphone sensitivity switch (located inside front cover of the LT-700 Portable Transmitter) to the MID position.
- Place the unit over your head and position the microphone as close as possible to your mouth. For best results the mic element should be 1 to 2 inches from your mouth. This will help to ensure that the microphone picks up your voice rather than room noise.
- Connect the earphone plug firmly to the earphone jack on the Listen receiver.
- Connect the microphone plug firmly to the microphone jack on the LT-700.



## LA-273 Over-the-Ear Microphone with Earphone

The LA-273 Over-the-Ear Microphone with Earphone provides high quality audio pick-up with its directional boom microphone. It allows you to simultaneously transmit on an LT-700 and receive audio on a Listen portable receiver.



*The LA-273 has a uni-directional pick-up pattern. This means that the microphone's element must be oriented towards your mouth. It will not pick up audio very well from the side of the microphone. The main advantage of this type of microphone is that it helps minimize feedback and picks up less environmental noise.*



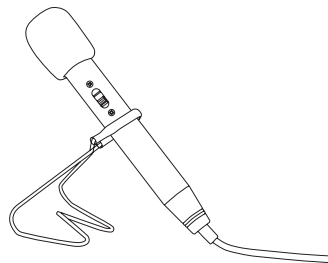
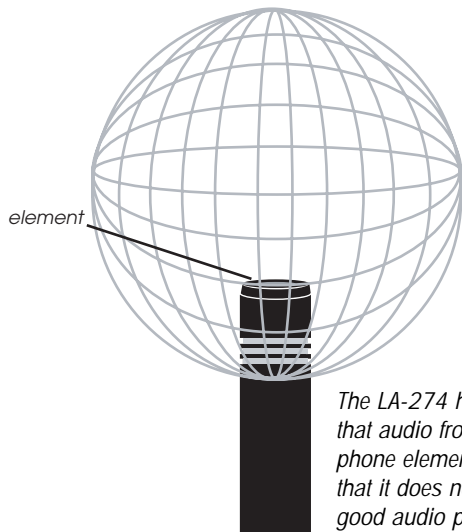
## LA-273 Over-the-Ear Microphone with Earphone

- Set the microphone sensitivity switch (located inside front cover of the LT-700 Portable Transmitter) to the MID position.
- Place the unit over your ear and position the microphone as close as possible to your mouth. For best results the mic element should be 1 to 2 inches from your mouth. This will help to ensure that the microphone picks up your voice rather than room noise.
- Connect the earphone plug firmly to the earphone jack on the Listen receiver.
- Connect the microphone plug firmly to the microphone jack on the LT-700.



## LA-274 Hand Held Microphone

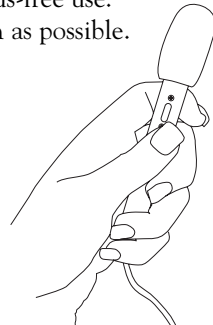
The LA-274 Hand Held Microphone provides high quality audio pick-up with its directional pickup pattern. Its small size makes it easy to use. The unit can be held in the hand, or placed in a stand on a table, as shown at right.



*The LA-274 has an omni-directional pick-up pattern. This means that audio from a broader area can be picked up by the microphone element. The main advantage of this type of microphone is that it does not have to be oriented directly towards your mouth for good audio pickup.*

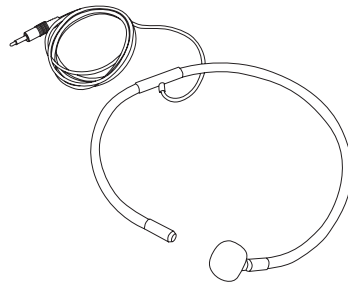
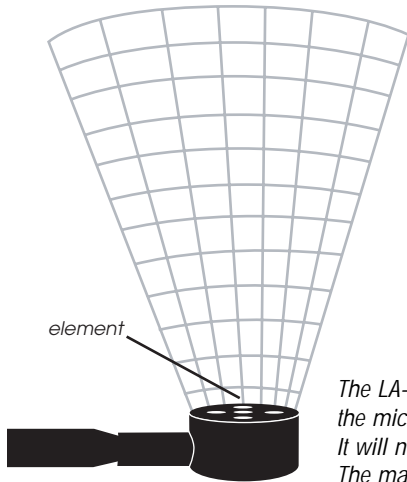
## Using the LA-274 Hand Held Microphone

- Set the microphone sensitivity switch (located inside front cover of the LT-700 Portable Transmitter) to the HI position.
- Connect the microphone plug firmly to the microphone jack on the LT-700.
- To use, slide the switch on the side of the microphone to the ON position (toward the mic element). For best results the mic element should be no more than 6 inches from your mouth. To mute your audio, slide the switch to the OFF position (toward the cord).
- A stand is provided (see illustration on page 14) for optional hands-free use. When using the stand, try to place the mic as close to your mouth as possible.



## LA-276 Collar Microphone

The LA-276 Collar Microphone provides high quality audio pick-up with its directional boom microphone. It is ideal for users who don't want to wear something on their heads or ears.



*The LA-276 has a uni-directional pick-up pattern. This means that the microphone's element must be oriented towards your mouth. It will not pick up audio very well from the side of the microphone. The main advantage of this type of microphone is that it helps minimize feedback and picks up less environmental noise.*

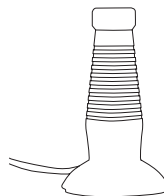
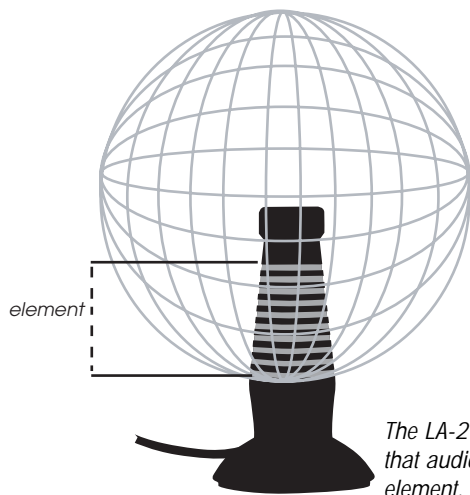
## Using the LA-276 Collar Microphone

- Set the microphone sensitivity switch (located inside front cover of the LT-700 Portable Transmitter) to the HI position.
- Connect the microphone plug firmly to the microphone jack on the LT-700.
- Place the collar ring around your neck and position the microphone so that it is in front of your mouth and as close to your mouth as possible without rubbing on your face or clothing. For best results the mic element should be 1 to 2 inches from your mouth.
- For best results bend the microphone wire to fit snugly around the speakers neck.



## LA-277 Conference Microphone

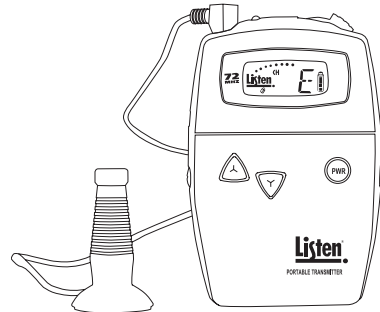
The LA-277 Conference Microphone provides high quality audio pickup in all directions. It is designed to be used on a table or other flat surface. This is an ideal microphone for multiple users of one transmitter.



*The LA-277 has an omni-directional pick-up pattern. This means that audio from a broader area can be picked up by the microphone element. The main advantage of this type of microphone is that it does not have to be oriented directly towards your mouth for good audio pickup.*

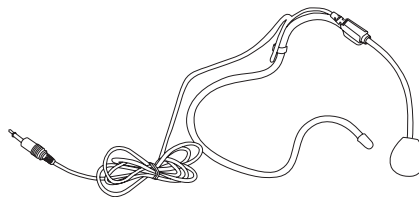
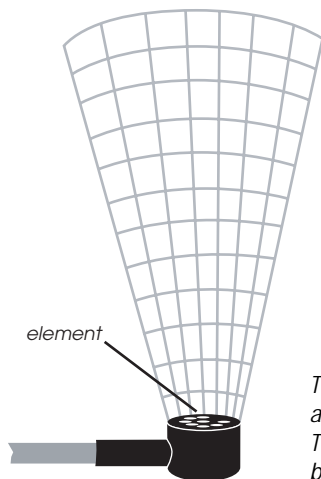
## Using the LA-277 Conference Microphone

- Set the microphone sensitivity switch (located inside front cover of the LT-700 Portable Transmitter) to the MID position.
- Connect the microphone plug firmly to the microphone jack on the LT-700.
- Place the unit on the table, clear of any obstructions that might interfere with its pick up of voices. For best quality, users should be as close to the microphone as possible (the ideal range is 2 to 3 feet). The closer you are to the microphone, the better it will sound.



## LA-278 Behind-the-Head Microphone

The LA-278 Behind-the-Head Microphone provides excellent audio quality with its directional capabilities. This microphone fits securely behind the head (below the hairline) and over the ears. This design allows the user to adjust the size to fit on the speaker's head comfortably for extended periods of time.



*The LA-278 has an omni-directional pick-up pattern. This means that audio from a broader area can be picked up by the microphone element. The main advantage of this type of microphone is that it does not have to be oriented directly towards your mouth for good audio pickup.*



## Using the LA-278 Behind-the-Head Microphone

- Set the microphone sensitivity switch (located inside front cover of the LT-700 Portable Transmitter) to the MID position.
- Place the unit behind your head, below the hairline stretching the wire to fit comfortable over your ears. Position the microphone as close as possible to your mouth. For best results the mic element should be 1 to 2 inches from your mouth. This will help to ensure that the microphone picks up your voice rather than room noise.
- Connect the microphone plug firmly to the microphone jack on the LT-700.



## Microphone Troubleshooting

### **My microphone doesn't work.**

- Check to make sure your LT-700 transmitter is turned on and that the batteries are charged.
- Make sure your microphone cable is plugged firmly into the microphone jack on the LT-700.
- Make sure the LT-700's MUTE switch is in the correct position.
- LA-274: make sure the microphone's ON/OFF switch is in the correct position.

### **My microphone audio sounds distorted or "fuzzy".**

- Make sure the Mic Sensitivity Switch (inside cover of LT-700) is set to the correct position for your microphone.
- Make sure you are speaking in a normal voice. If you speak too loudly, your audio will be distorted.

## Microphone Troubleshooting continued

### **My microphone works, but the audio level is very low.**

- Make sure the microphone is connected firmly in the LT-700 Transmitter.
- Make sure the microphone is positioned so the mic element points directly at your mouth. Refer to individual microphone page to confirm correct orientation.
- Make sure the Mic Sensitivity Switch (inside front cover of the LT-700) is in the correct position for your microphone. See page 2 to verify correct setting for your microphone.

### **Transmission seems to stop or audio cuts out.**

- Make sure the microphone is firmly plugged into to the LT-700.

## Microphone Specifications

### LA-261 Lapel Microphone

Description:	High performance Lapel microphone, omni-directional, electronic-condenser. Black. Clip and wind screen included.
Frequency Response:	20Hz-15KHz
Impedance:	less than 2.2K Ohms
Phantom Power:	3VDC required
Connector:	3.5 mm mono
Cable Length:	36 in (92 cm)
Weight:	4 oz (113g)
Accessories:	None

### LA-262 Over-the-Head Microphone

Description:	Head-worn, uni-directional, electronic condenser microphone. Black. Clip and wind screen included.
Frequency Response:	30Hz-5KHz.
Impedance:	680 Ohms.
Phantom Power:	3VDC required.
Connector:	3.5mm mono.
Cable Length:	36 in (92cm).
Weight:	8 oz (227g).
Accessories:	LA-264 Replacement Mic Screens and Ear Cushions.

### LA-268 Over-the-Ear Microphone

Description:	Head-worn microphone, omni-directional electronic condenser microphone. Black. Clip and wind screen included.
Frequency Response:	30Hz-15KHz
Impedance:	Less than 2.2K Ohms
Phantom Power:	3VDC required
Connector:	3.5 mm mono
Cable Length:	36 in (92cm)
Weight:	8 oz (227g)
Accessories:	None

### LA-270 Noise Canceling Microphone

Description:	Head-worn, noise-canceling condenser microphone, uni-directional. Black. Wind screen included.
Frequency Response:	300Hz-10KHz
Impedance:	1K Ohms
Phantom Power:	3VDC required
Connector:	3.5 mm mono
Cable Length:	55 inch (1.4m)
Weight:	2 oz (59g)
Accessories:	None

## Microphone Specifications continued

### LA-272 Over-the-Head Microphone & Earphone

#### Microphone Specifications

Description:	Head-worn, uni-directional, electronic condenser microphone. Black. Clip and wind screen included.
Frequency Response:	30Hz-5KHz
Impedance:	680 Ohms
Phantom Power:	3VDC required
Connector:	3.5mm mono
Cable Length:	36 in (92cm)
Weight:	8 oz (227g)
Accessories:	LA-264 Replacement Mic Screens

### LA-273 Over-the-Ear Microphone & Earphone

#### Microphone Specifications

Description:	Head-worn microphone, uni-directional electronic condenser microphone. Black. Clip and wind screen included.
Frequency Response:	30Hz-15KHz
Impedance:	Less than 2.2K Ohms
Phantom Power:	3VDC required
Connector:	3.5mm mono
Cable Length:	36 in (92cm)
Weight:	8 oz (227g)
Accessories:	None

#### Earphone Specifications

Description:	Single ear receiver. Black.
Frequency Response:	20-15KHz
Impedance:	32 Ohms
Max Input:	130mW maximum
Connector:	3.5mm mono
Accessories:	Ear Cushions

#### Earphone Specifications

Description:	Single ear receiver. Black.
Frequency Response:	20Hz-15KHz
Impedance:	32 Ohms
Max Input:	100 mW
Connector:	3.5mm mono
Accessories:	None

## Microphone Specifications continued

### LA-274 Hand Held Microphone

Description:	High performance hand held, omni-directional, electronic-condenser microphone. Black. Wind screen and wire stand included.
Frequency Response:	20Hz-15KHz
Impedance:	less than 2.2K Ohms
Phantom Power:	3VDC required
Connector:	3.5mm mono
Cable Length:	36 in (92 cm)
Weight:	4.0 oz (113g)
Accessories:	None

### LA-276 Collar Microphone

Description:	Shoulder/neck-worn, uni-directional microphone. Black. Flexible body. Wind screen included.
Frequency Response:	300Hz-18KHz
Impedance:	1K Ohms
Phantom Power:	1.5VDC required
Mic Length:	22 inch (55.9cm)
Connector:	3.5 mm mono
Cable Length:	48 inch (1.2m)
Weight:	4.0 oz (113g)
Accessories:	None

### LA-277 Conference Microphone

Description:	High performance omni-directional microphone, electronic-condenser. Black.
Frequency Response:	20Hz-12KHz
Impedance:	1K Ohms
Phantom Power:	1.5VDC required
Mic Height:	2.3 inch (58mm)
Mic Diameter:	1.4 inch (35mm)
Connector:	3.5 mm mono
Cable Length:	48 inch (1.2m)
Weight:	2.7 oz (77g)
Accessories:	None

### LA-278 Behind-the-Head Microphone

Description:	Worn behind the head/attaches to ears, uni-directional microphone. Black. Windscreen included.
Frequency Response:	150-10KHz
Impedance:	2K Ohms
Phantom Power:	3VDC required
Mic Length:	4.5 in (11.5cm)
Connector:	3.5 mm mono
Cable Length:	52 in (1.3m)
Weight:	1.5 oz (42.5g)
Accessories:	None

## Warranty

Listen Microphones and other accessories carry a limited 90 day warranty.

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 Listen 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.

## Warranty continued

Listen will only accept returned products with prepaid shipping and with a return authorization number. To receive a return authorization number call 1.800.330.0891 or +1.801.233.8992. Listen will refund the purchase price of the product to the original purchaser within the first ninety days after purchase if the product does not perform better than a similar competitive product subject to an annual amount to any one original purchaser not to exceed \$1,000 and subject to the conditions of this limited warranty. This is called our Whatever-it-takes Performance Guarantee. Refunds will only be given to the original purchaser of product once the product has been returned to the factory in good working order with an explanation for the refund. To receive a refund, call Listen for a return authorization number. Return the product with a letter on the end user's letterhead stating the reason for the refund and a copy of the original invoice. If the product was purchased through a dealer, refunds must be processed through the original dealer.

This limited warranty, prices and the specifications of products are subject to change without notice. For complete warranty information, visit the Listen website at [www.ListenTech.com](http://www.ListenTech.com).



## Accessories

### LA-263 “Y” Cable

This cable makes it easy to use a line level source (such as a CD player) along with your microphone. It provides one 3.5mm male jack, and splits to one RCA phono connector (line input to LT-700) and one 3.5mm female connector (Mic input to LT-700). The cable length of 48 in (122cm) serves as an antenna for the LT-700 as well.



### LA-275 Sacrificial Cable

This earphone/microphone connection cable relieves strain on your other cables, increasing the life of your microphone or earphone. It provides 3.5mm mono male and female connectors with a 6 in (15.2 cm) cable.









[www.ListenTech.com](http://www.ListenTech.com)

Listen Technologies Corporation  
8535 South 700 West, Suite A  
Sandy, Utah 84070-2515 U.S.A.  
Telephone: +1.801.233.8992  
Toll Free (North America): 1.800.330.0891  
Fax: +1.801.233.8995  
E-mail: [info@ListenTech.com](mailto:info@ListenTech.com)