

User Manual

LR-5200-IR iDSP Receiver



© 2015 Listen Technologies Corporation® All Rights Reserved

For further details regarding use, adjustment, or programming of your Listen products visit our website at www.listentech.com/support-manuals or contact Listen at +1.801.233.8992 or 1.800.330.0891.

Dear Valued Customer,

Thank you for choosing Listen! We are dedicated to providing you with the highest quality products available, and take pride in delivering outstanding performance to ensure you are completely satisfied.

We independently certify each of our products to the highest quality standards and back them with a limited lifetime guarantee. We are available to answer any questions you might have during installation or in the operation of our products. At Listen, it's all about you, should you have any comments or suggestions we're here to listen.

Here's how to reach us:

+1.801.233.8992

+1.800.330.0891 North America

+1.801.233.8995 fax support@listentech.com www.listentech.com

Thank you and enjoy your listening experience!

Best regards,

Russell Gentner and the Listen Team

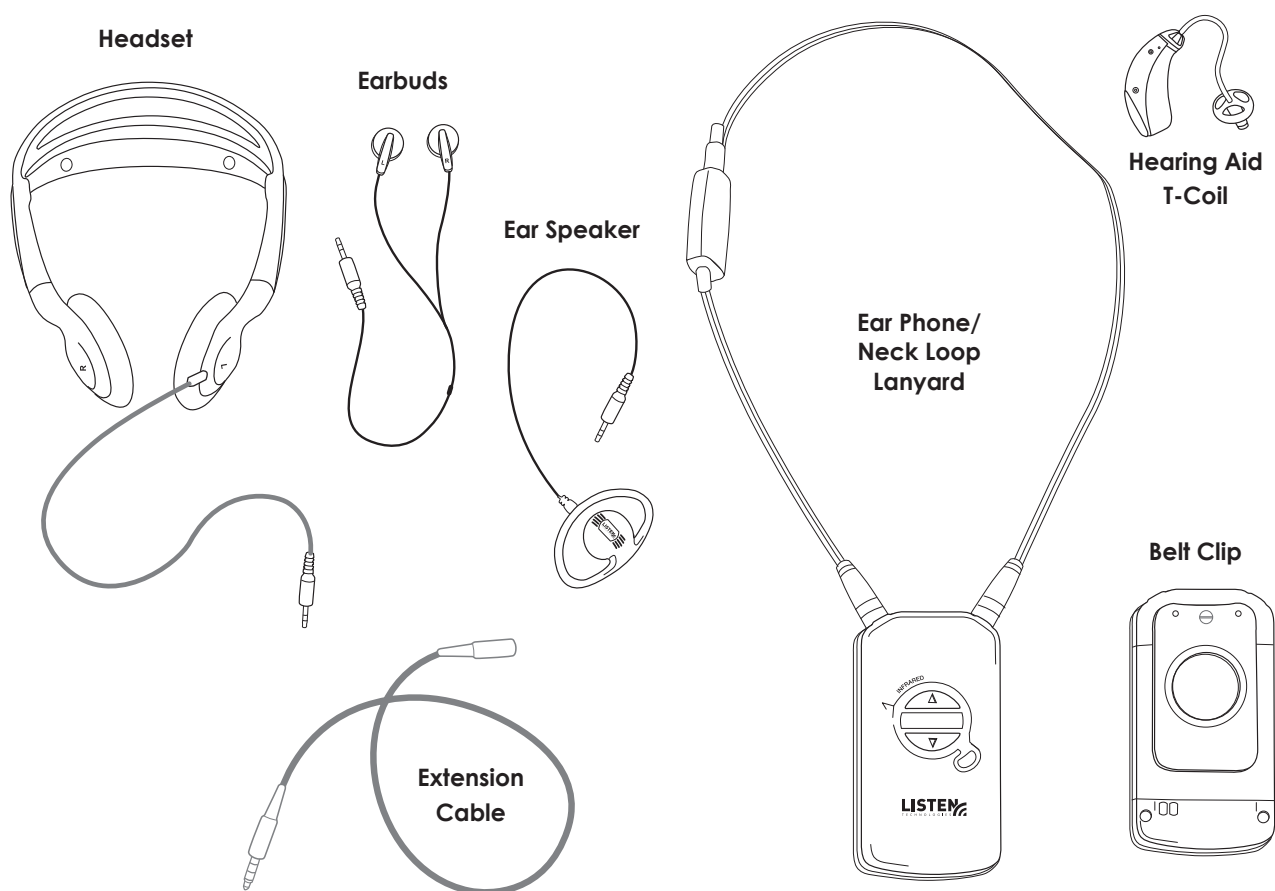
- In the few instances where repairs were needed, 99% of all clients indicated that they were happy with repair turn-around-times and 85% of the time, clients were without their product for less than 10 days!
- Overall client satisfaction of working with Listen was rated 4.8 out of 5.
- "Please continue with your excellent attitude toward customer satisfaction. You guys are great!"
- "I've never had such good service from any company. Keep up the good work!"
- "You stand behind your product wonderfully."

TABLE OF CONTENTS

iDSP-IR Receivers	3
LR-5200 Quick Reference	4
LR-5200 Specifications	5
Safety Cautions	6
Hearing Safety:	6
Medical Device Safety:	6
Recycling :	6
Product Recycling Instructions:	6
Battery Recycling Instructions:	6
Quick Setup and Operation Instructions:	7
1. Unpack Unit	7
2. Activate Battery	7
3. Charge Battery	7
4. Connect Ear Phone	8
Using the Neck loop/Lanyard	8
Using the 3.5mm Headset Extension Cable	8
5. Turn the Unit On	9
6. Programmable Channel Select (Listen Button)	9
Channel Selection	9
Automatic Channel Selection	11
Manual Channel Selection	11
Seek Mode	12
Disabled	13
Listen Button Lock	13
7. Adjust Volume	14
Battery & Belt Clip	15
Low Battery Indication	15
Belt Clip Installation/Removal	15
Accessing Battery Compartment	16
Reset to Factory Default Settings	16
Advanced Program Features an Listen Technologies' UI Configuration Software	17
Squelch	17
Channel Labels	17
Auto Power Mode	18
Auto OFF Mode	18
Unit ID	18
Brightness Control	18
Auto Seek Mode	18
Jack Sense	18
Stereo Mode	19
Unit Information	19
Reset to Factory Defaults	19
Firmware Update	19
Troubleshooting LR-4200 Receivers:	20
Compliance Notice and FCC Statement	21
Warranty	22
Contacting Listen Technologies	23

iDSP™ Receivers

The LR-5200 is a powerful Assistive Listening Receiver designed to be compact and simple to use. The unique design of the iDSP™ receiver family allows them to be worn as a necklace, making this the most inconspicuous ALS receiver on the market.



Each receiver can be purchased with a Ear Phone/Neck Loop Lanyard that is designed to hold the receiver like a necklace similar to the Blue Tooth™ transceivers used with many of the today's hearing aids. The Ear Phone/Neck Loop Lanyard can be used as the induction loop for those users who have T-coil enabled hearing aids or cochlear implants, inducing the received audio directly into these T-coil enabled devices. The Ear Phone/Neck Loop Lanyard also provides the connection to Listen's Universal Ear Speaker, Earphones and Headphones, incorporating a short connection cable that plugs directly into the Ear Phone/Neck Loop Lanyard 3.5mm headset jack located 2/3 of the way up the lanyard. A second 3.5mm extension cable provided with Listen's universal earphones provides the length of cable required to use the belt clip.

LR-5200 Quick Reference



1. **OLED Display Area:** Displays battery status, unit ID, channel status, volume status and charge activation
2. **Micro USB:** USB charging, programming, firmware updates and inventory dispensing
3. **Up/Down Volume Control:** Press momentarily to adjust the volume up/down or press and hold to ramp the volume.
Note: Press and hold both up and down buttons for 5 seconds to activate channel select, use up and down to change the channel. Press power to save and exit
4. **Programmable Channel Select:** Cycle through active channels, seek to or lock to a channel.



5. **3.5 mm Output Jacks:** Connect Listen Earphone/Neck Loop Lanyard for use with T coil hearing aids or with Universal Ear Speaker or Headphone.
6. **Belt Clip:** To remove, remove screw and pull belt clip from unit. To install place belt clip in place and insert screw.
7. **Charging Contact:** For use with Listen charging tray options.
8. **Power On/Off:** Press and hold for 1 second to turn on. Press and hold for 3 seconds to turn off.
9. **LED:** Indicates low battery condition and charging status
10. **Battery Protective Pull Tab:** Remove clear plastic pull tab to activate internal battery connections.
11. **Battery Door:** Can be removed to access battery and product labeling information.

LR-5200 Specifications

Product Specification: LR-5200		
Audio	System Frequency Response System Signal to Noise Ratio System Distortion Output/s	63 Hz - 15 kHz (± 3 dB) Mono: >60 dB, Stereo: >52 dB <2% total harmonic distortion (THD) at 80% deviation Two (2) 3.5 mm (0.14 in.) connectors, unbalanced, 0 dBu nominal output level, 16 mW maximum, impedance 32 ohm, accepts mono or stereo phone plug
Controls	User Controls Set-up Controls Programming	Power, up/down volume, Listen button for end user channel selection Press and hold up/down volume buttons for 5 seconds to enter channel adjust, use up/down to select channel Via software and USB port
Indicators	LED Display	Flashes when batteries are low or to indicate charging, solid when fully charged Channel designation, battery level, unit number, charging status, volume status
RF	Carrier Frequencies Number of Channels Frequency Accuracy Modulation	2.3 MHz, 2.8 MHz, 3.3 MHz, 3.8 MHz Four (4) selectable channels $\pm .005\%$ stability 32 to 122 °F (0 to 50 °C) FM Wideband, ± 50 kHz deviation Max, 50 μ S de-emphasis
IR	Squelch Power Save Mode Sensitivity	Programmable in 20 steps, automatic on loss of signal Turns unit off after a specified time of no IR signal, default is 30 minutes Better than one (1) nW/cm ² @40 dB SNR
Power	Battery Type Battery Life Battery Charging Time Power Supply	Lithium Ion 8 Hours of typical use Fully charged in 2.5 Hours Micro USB connector, 5 V, 500 mA
Physical	Dimensions (H x W x D) Dimensions with Belt Clip Unit Weight Unit Weight with Battery Shipping Weight Color	3.75 x 2.0 x 0.64 in. (9.6 x 5.0 x 1.7 cm) 3.75 x 2.0 x 0.80 in. (9.6 x 5.0 x 2.1 cm) 1.9 oz. (53.9 g) 2.8 oz. (79.4 g) 3.5 oz. (99.2 g) with a 1 lbs. (0.45 kg) minimum Flat Black
Environmental	Temperature - Operation Temperature - Storage Relative Humidity	14 to 104 °F (-10 to 40 °C) (-)4 to 122 °F (-20 to 50 °C) 0 to 95% relative humidity, non-condensing
Compliance	Standards	FCC Part 15, ICS-03, CE, RoHS, WEEE

Safety Cautions!

Hearing Safety:

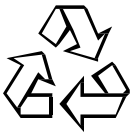
This product is designed to amplify audio to a high volume level which could potentially cause hearing damage if used improperly. To protect your hearing make sure the volume is turned down before putting on the ear speaker or headphones. Then adjust the volume up to the minimum setting require to hear clearly. Do not allow children or other unauthorized individuals to have access to this product without supervision.

Medical Device Safety:

Before using this Listen product with an implantable or other medical device, consult your physician or manufacturer of your implantable or other medical device. Always make sure you are using this product in accordance with the safety guidelines established by your physician or the implantable device manufacturer.

Recycling :

Help Listen Technologies protect the environment! Please take 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.

Quick Setup and Operation Instructions:

1. Unpack Unit

Inspect the unit for physical damage. If damage is apparent, please contact Listen Technologies technical support for assistance.

2. Activate Battery

Remove the clear plastic pull tab located at the bottom of the battery door, this will activate the internal battery connections. Note: upon first activation the battery will have a limited charge, we recommend the unit be charged immediately.



Pull the tab to activate the internal battery

3. Charge Battery

Fully charge the rechargeable Lithium Ion battery by connecting the unit to one of Listen Technologies charging options.

- a. LA-380 Intelligent 12-Unit Charging/Carrying Case
- b. LA-381 Intelligent 12-Unit Charging Tray
- c. LA-421 1-Port USB Charger (comes with cable)
- d. LA-423 4-Port USB Charger (comes with 4 cables)
- e. LA-422 USB to Micro USB cable (Connects iDSP™ receiver to any standard USB port)

When connected to a charging option the OLED status display will show the battery charge icon momentarily and the status LED next to the power button will begin to flash indicating that the unit is charging.

OLED Display:

Charging Icon when first connected to a charging source

Indicated Unit #, Charge % and Channel Assignment when removed for charging



Status LED:

Flashes during charging

Solid when charge is complete



When the unit reaches 100% charged the status LED next to the power button will stop flashing and will be solid.

4. Connect Ear Phone

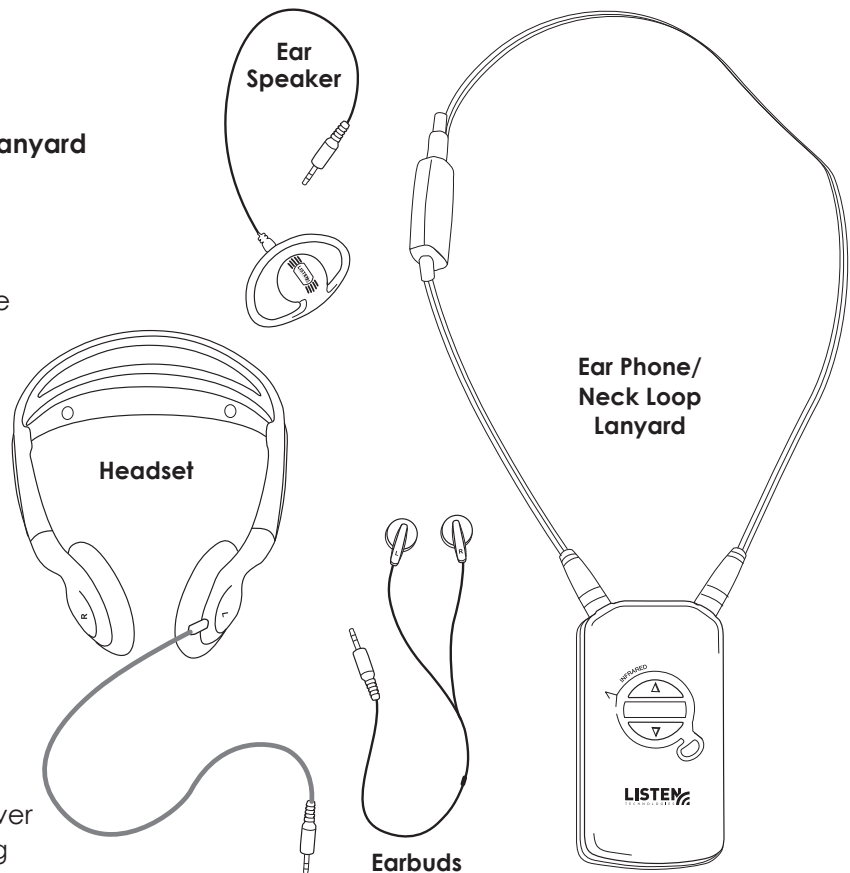
Using The Ear Phone/Neck Loop Lanyard

Connect the Listen Intelligent ear phone/neck loop lanyard to the two 3.5 mm output jacks on the unit. Then connect the short cable ear speaker or headphones to the 3.5mm output jack on the lanyard. The lanyard neck loop is placed over the head and worn as a necklace.

This is the preferred method of wearing the receiver for best performance!

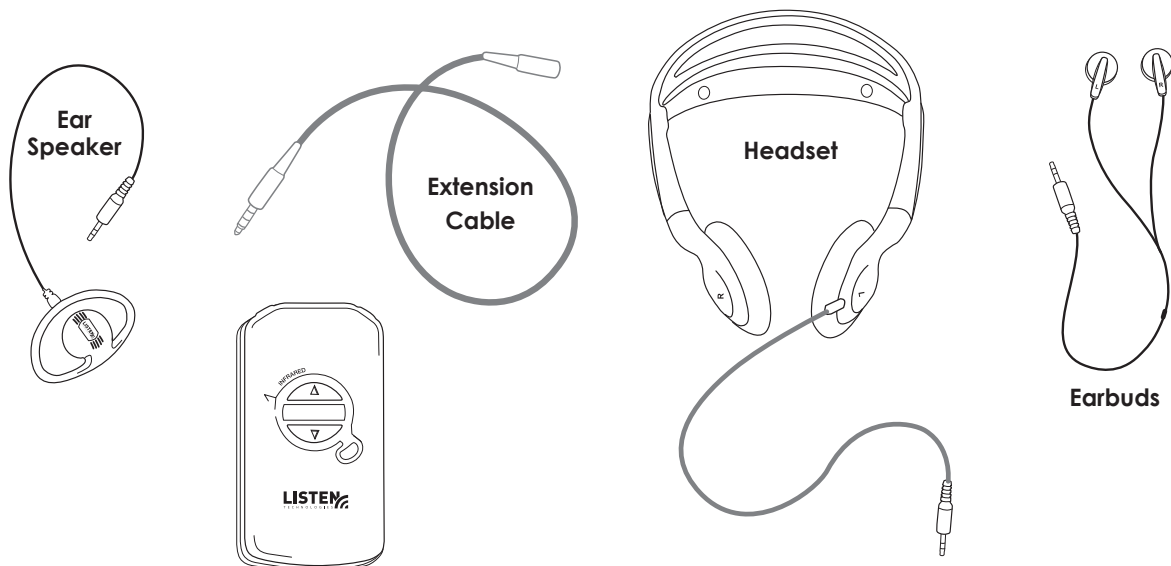
For T-coil compatible hearing aid use simply disconnect the ear speaker or headset from the ear phone/neck loop lanyard.

Important: Always wear the receiver in such a way that there is nothing covering the receiver, if covered or obstructed the receiver will have poor range and performance!



Using The 3.5mm Earphone Extension Cable

If the receiver is to be clipped to a belt or waistband a long extension cable is used. Connect the extension cable to the ear speaker, headset or earphones, then connect the extension cable into one of the 3.5 mm output jacks on top of the receiver.



5. Turn the Unit On

Press and hold the Power Button for 1 second to turn the receiver on, the unit display will show the unit ID, battery status and the current channel. Each item will be displayed and then the display will turn off.

OLED Display:

Indicates Unit #,
Charge %
and Channel
Assignment
when power
button is pressed



Power Button:

Press and hold for
1 second to turn
on, press and hold
for 3 seconds to
turn off



To view the unit ID, battery status or channel while the unit is powered, momentarily press the power button. To turn the receiver off, press and hold the power button for 3 seconds.

6. Programmable Channel Select (Listen Button)

The Main advantage of the LR-5200 receiver is the functionality of the programmable Listen Button. The Listen Button can be programmed for Channel Select Mode, Seek, or be Disabled. This mode can only be changed via the iDSP Software Suite. The default mode is Channel Select Mode.

Note: The LR-5200-IR receiver operates on 4 wide band channels. Channel 1 (2.3 MHz), Channel 2 (2.8 MHz), Channel 3 (3.3 MHz) and Channel 4 (3.8 MHz). In order for the LR-5200 to receive audio it must be on the same channel (frequency) as a transmitter/radiator in the facility.

Channel Select Mode

The Listen Button on your receiver has been programmed from the factory for Channel Select Mode. This mode is especially useful for applications where users are required to select between active channels (such as language interpretation, multiple exhibits or multiple classrooms), and you don't want them to have to go through all available channels to find the appropriate channel. In this mode the button can be programmed to increment only through the desired active channels in your facility and lock out all the other unused channels.



1. Channel Select: (Listen Button)

In this mode when the Listen Button is pressed the unit will increment through the channel list to the next programmed channel. For example if there are three channels programmed (English, Spanish and German) and the unit is on English and the button is pressed the unit will switch to Spanish. If the button is pressed again the unit will switch to German and an additional press will take the unit back to English again.

There are two modes to customize the channel list for the Listen Button. The two modes are Automatic Channel Selection and Manual Channel Selection. These modes can be programmed using the unit or via the IDSP Software Suite. See *page 17*.

Your Listen receiver has been shipped to you with the Automatic Channel Selection, Auto 4 (channels 1, 2, 3 and 4) enabled.

1. Automatic Channel Selection

In the Automatic Channel Selection mode the user decides how many channels of audio are to be received by the unit. In this mode the unit automatically selects the channels to be used together. The unit is defaulted to Auto 4.

1. Auto Select Mode:

Press and hold the Power and Up button simultaneously for 3 seconds

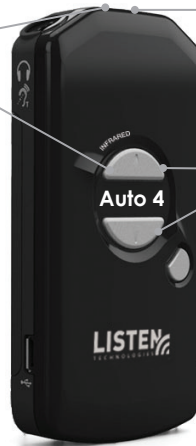
3. Save/Exit:

Press power button to save and exit.

2. Scroll Up/Down:

Use the up or down button to scroll through available channels

Auto 1 (Channel 1)
Auto 2 (Channels 1, 2)
Auto 3 (Channels 1, 2, 3)
Auto 4 (Channels 1, 2, 3, 4)



The user selects the number of channels by using the following sequence.

Simultaneously press and hold the UP and POWER button for 3 seconds. The unit will display “Auto 4” on the display. Press the UP/DOWN button for the number of desired channels. Momentarily press the POWER button to save the setting or after 5 seconds of no activity the setting is saved and the unit returns to normal operation.

Or use the IDSP Software Suite for set up. See page 17.

2. Manual Channel Selection

In the Manual Channel Selection mode the user decides specifically which channels are to be received by the unit.

1. Manual Select Mode:

Press and hold the Power and Down button simultaneously for 3 seconds

2. Scroll Up/Down:

Use the up or down button to scroll through available channels



The user selects these channels by using the following sequence.

Simultaneously press and Hold the DOWN and POWER button for 3 seconds. The unit will display "Manual" on the display for 3 second and then displays the current channel. If the channel is used (meaning the Listen Button can select it) the channel will be solid; if not it will flash. Press the LISTEN button for each selected channel to change between "used" (solid) and "not used" (flashing). Press the UP/DOWN button to scroll through all available channels. Momentarily press the POWER button to save and end or after 5 seconds of no activity the setting are saved and the unit returns to normal operation. *Note: The IDSP Software Suite can also be used for set up! See page 17.*



Once the channels have been selected via the Automatic Channel Selection or the Manual Channel Selection modes a quick change to a specific channel can be made easily. This can be accomplished by the following process:

Select the channel to be changed via the Listen Button. Press and hold the volume up and down buttons simultaneously for 5 seconds. The current channel will begin to flash on the display.

Use the volume up or down button to scroll through the available channels. Once the desired channel is located momentarily press the power button to save and exit the channel select mode or if no button is pressed for 5 seconds then the selected channel will be saved and the unit will exit the channel select mode.

Seek Mode

Seek Mode is another way to find an active channel in a venue. In the Seek Mode with a press of the Listen Button the unit searches for and locks onto the next active channel in the list of available channels. This mode is useful when users are moving from room to room or may not know which channel to select.

Disabled

When in the disabled mode the Listen Button has no function.

Listen Button Lock

Once an active channel is found it is sometimes desirable to lock the unit onto the currently tuned channel and not allow the user to make any channel changes. This can be accomplished by pressing and holding the listen button for 5 seconds. When the unit enters locked mode the unit will show the locked symbol on the display for 3 second. When locked, each time the Listen Button is pressed the unit will show the locked symbol on the display for 3 seconds.



To unlock the unit simply press and hold the Listen button for 5 seconds. When the unit is unlocked the unit will show the unlocked symbol on the display.



7. Adjust Volume

Adjust the listening volume to a comfortable listening level via the volume up/down buttons.



If the volume is adjusted while there is no audio present the unit will output a momentary tone each time the button is pressed allowing the user to gauge and adjust the audio level to a comfortable listening level. The volume level will be displayed for 3 seconds and then the display will turn off.

Note: To protect the users hearing, at power up the receiver will automatically reset to a 25% volume level. Put on a headset and then adjust the volume to a comfortable listening level.

Battery & Belt Clip

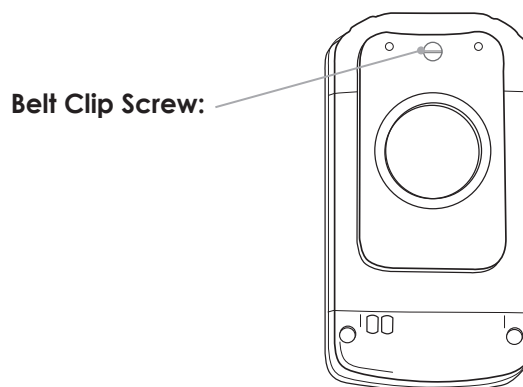
Low Battery Indication

When the unit detects a low battery condition it will cause the status LED to flash slowly indicating that the unit needs to be charged. When the light begins to flash the unit has approximately 30 minutes of receiver use before the unit will turn off. Press and release the power button and the battery charge % will be displayed on the OLED screen temporarily.



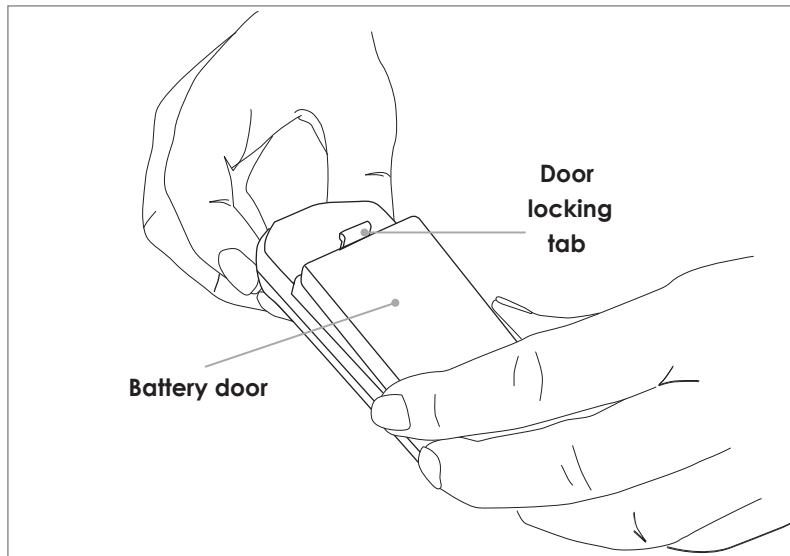
Belt Clip Installation/Removal

To remove belt clip, remove screw and pull belt clip from unit. To install place belt clip in place and insert screw.



Accessing Battery Compartment

To access the battery compartment simply remove the belt clip by pulling down and out on the battery door locking tab. *Note: The product labeling information can be found behind the battery and includes the product model number, description, serial number, contact information and compliance statement.*



Reset to Factory Default Settings

The unit can be returned to its factory default settings at any time by the following steps:

1. Turn the unit off
2. Press and hold down the volume down button while pressing and holding the power button for 1 second to turn the unit on
3. Continue to hold down the volume down button while the unit powers on. The OLED display will show the Unit #, Charge Level %, Channel Selection and end with "Reset?"
4. Release the volume down button when Reset is displayed on the OLED display.
5. Press the power button to confirm default is desired. Once pressed the unit will display "Defaulted" on the OLED display. The unit has now returned to the factory default state
6. If 5 seconds lapses before the power button is the pressed, the unit will time out and the unit will not reset to the factory default settings

Advanced Program Features and Listen's iDSP Software Suite

To manage the advanced program features on any of the iDSP™ receivers a windows based User Interface (UI) software is required.

This software is available free of charge from Listen Technologies. To download the software log onto <http://www.listentech.com/support/software/idsp-software-suite/> and follow the instructions.

With the UI software, direct communication is provided via the Micro USB connection on the receiver. Once connected the UI software provides setup and adjustment of the following functions of the LR-5200 receiver.

Note: A help file for the UI software is included with the download and will provide detailed instructions for set up and management of all the advanced program features of the LR-5200 receiver.



Squelch

The purpose of squelch is to mute the audio output of the receiver when the signal from the transmitter/ radiator(s) is turned off or the level is too weak to be received. Without squelch radio noise will be heard in the earphone. The squelch on the receiver can be adjusted to mute the audio at different signal strengths. There are 20 squelch settings. The lowest squelch setting (no squelch) is "0" and the tightest squelch setting is "20". Your Listen receiver has been shipped to you with the squelch setting of 3.

When to Adjust Squelch Setting:

For maximum range the squelch setting should be set to a low level (0, 1, or 2). However when setting the squelch level low radio noise will be heard in the earphone when the signal strength is low.

If no radio noise is desired to be heard when the signal strength is low then set the squelch setting to a higher number. When setting the squelch higher than 3 the receiver will have reduced range due to the audio being cut off when the signal is low.

Channel Labels

The channel labels are displayed on the OLED status screen. The default is the channel number the receiver has been programmed to receive, i.e. "CH-1". Customization of this display can be created to better identify the type of audio, for example CH-1 could be changed to display "Spanish" if the receiver is used for language translation.

Auto Power Mode

The auto power mode will automatically power the receiver on when the unit is removed from the charging device, displaying the unit ID, battery status and the active channel. When the unit is returned to the charging device the unit will automatically turn off and resume charging operation. Your Listen receiver has been shipped to you with the Auto Power Mode enabled.

Auto OFF Mode

The Auto OFF Mode when enabled will automatically turn the receiver off after a period of time if no IR signal is detected by the receiver. There are four setting OFF, 10, 15, and 30 minutes. Your Listen receiver has been shipped to you with the Auto OFF Mode enable to 30 minutes.

Unit ID

The unit ID number provides a unique identification for each receiver that is displayed on the OLED status screen. This can be any 3 digit number between 000 and 999. The unit ID allows venues to track individual units and for easy dispensing and inventory control. Your Listen receiver has been shipped to you with a Unit ID of 000.

Brightness Control

The Brightness Control adjusts the level of brightness of the OLED display. There are four settings Auto, Bright, Dim and Disabled. In the Auto mode the unit uses an internal light sensor and automatically dims the display when the light level is below approximately 10 Lux. In the Bright, Dim or Disabled mode the unit disables the light sensor and leaves the OLED in the selected Bright or Dim state. In the disabled mode the unit disables the display from lighting during normal operation except for the power on sequence or when the power button is momentarily pressed to check status. The receiver is shipped with the Auto Brightness Control Mode enabled.

Auto Seek Mode

When Auto Seek Mode is enabled the receiver will power up to the same channel that it was on when it was last turned off. If no signal is present or the signal is lost on that channel the receiver will continuously seek for a channel with IR signal until one is found. Auto seek is excellent for applications where users are moving from room to room or exhibit to exhibit. Auto Seek Mode has two settings ON and OFF. Your Listen receiver has been shipped to you in the Auto Seek OFF Mode.

Jack Sense

The jack sense mode when enabled will automatically turn the receiver on when a headset is inserted into the 3.5 mm output jack on the receiver. The receiver will automatically turn off after 60 seconds when the headset is removed from the 3.5 mm output jack. Your listen receiver has been shipped to you with the Jack Sense Mode disabled.

Note: If Jack Sense is on and Auto Power is on, the receiver will ignore jack sense while on the charger.

Stereo Mode

When Stereo Mode is enabled the receiver can receive and output a stereo signal to the connected headphones. This feature can only be used in conjunction with the ListenIR LT-82 / LA-140 system. In order for this feature to function properly the stereo mode must be enabled on both the receiver and the LT-82 Transmitter. Stereo mode has two settings ON and OFF. Your Listen receiver has been shipped to you in the Stereo OFF Mode.

Unit Information

When a unit is connected to the configuration software the software extracts specific information from the unit and displays it for the user. This information includes the model number, frequency, Serial Number and Firmware Version.

Reset to Factory Defaults

The unit can be returned to the factory default settings.

Note: When resetting the unit to factory default via the software the unit ID is not reset.

Firmware Update

The firmware update function will check via the internet to see if a firmware update is available for the receiver.

Note: Battery level must be greater than 10% to perform a firmware update!

Troubleshooting LR-5200 Receivers:

The receiver has no power.

Make sure the unit has either a fully charged battery or a Listen approved wall charging transformer is connected. Make sure the Power button on the top of the unit has been pressed to turn the unit ON. If this does not work, make sure the battery is installed properly and / or install a different battery.

There is no audio.

Make sure the volume control is turned up on the receiver to at least 25%. Check the Intelligent Earphone/ Neck Loop Lanyard to insure it's plugged in all the way into the jacks on the top of the unit. Make sure the Ear Phone is plugged into the Ear Phone/Neck Loop Lanyard. Check to insure the transmitter/radiator(s) is broadcasting an audio source. Verify the receiver is tuned to the same channel (frequency) as the transmitter/radiator(s). If the IR signal is too weak, the receiver will squelch and mute the audio source; move closer to the radiator or add more radiators to provide more range and freedom of movement.

The audio is distorted.

Check the receiver is on the correct channel and make sure your using the clearest channel possible. Verify the audio on the transmitter is not turned up too loud; this will cause distortion. Insure the Intelligent Ear Phone/ Neck Loop Lanyard connectors are pushed all the way into the jacks on top of the unit. Check the Ear Phone to verify it is plugged all the way into the Ear Phone/Neck Loop Lanyard. Make sure the receiver is not too close to the transmitter/radiator.

I cannot pick up the signal on the receiver.

Check to make sure the receiver and the transmitter are on the same exact channel frequency. Also verify the receiver is in broadcast range of the transmitter/radiator by moving closer.

My battery is not charging.

Verify the clear plastic pull tab has been removed from the receiver battery door engaging the battery connections. Make sure the battery is installed properly and that the unit is plugged into the charging device correctly. Check the charging device to verify it is plugged in the proper power outlet and power is available at the outlet. If this does not work, install a different battery.

I want to run the unit from a wall transformer.

Simply plug a Listen approved charging transformer (LA-421) into the Micro USB connector on the side of the unit. A battery must be installed at all times even when operating the unit with a wall charging transformer.

Compliance Notice and FCC Statement 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.

This equipment has been certified to comply with the limits for a class B computing device, pursuant to FCC and IC Rules. In order to maintain compliance with FCC and IC regulations, shielded cables must be used with this equipment. Operation with non-approved equipment or unshielded cables is likely to result in interference to radio and TV reception. 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)

Warranty

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.

Listen warrants its Charging/Carrying Cases (LA-306, LA-311, LA-313, LA-317, LA-318, LA-319, LA-320, LA-321, LA-322, LA-323, LA-324, LA-325, LA-380, LA-381) 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.

<http://www.listentech.com/support/product-registration/>

Contacting Listen

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.

14912 Heritagecrest Way
Bluffdale, Utah 84065-4818
+1.801.233.8992
+1.800.330.0891 North America
+1.801.233.8995 fax

support@listentech.com
WWW.listentech.com

20150329