

# LR-400 Digital Receiver

## Specify Part Number

LR-400-072  
or LR-400-216

Listen's LR-400 Portable Receiver offers a unique Look&Listen™ Display – Easily verify channel selection, whether or not channel is locked, battery level, and RF signal strength using the LR-400's LCD. A great choice for venues that change channels frequently or maintain several wireless audio systems.



## Benefits

- Exceptional audio quality! 80 dB sound-to-noise ratio!
- LCD makes maintenance easy – No need to guess about the status of your batteries or which channel you are on.
- Flexibility – Available in 72 or 216 MHz.
- 57 Channels – Compatible with most other assistive listening (ALS) products.
- 100 % Digital – Listen receivers are digitally-tuned so transmission won't drift; assurance that when you select a channel, it stays on channel!
- UP, DOWN and SEEK buttons behind mechanically locking door, thus discouraging end users from changing the channel selected.
- Built in SmartCharge™ won't allow batteries to overcharge! Charging circuitry is conveniently built into Listen's receivers; never worry about unplugging a transformer at a certain time.

## User Applications

- ADA compliance
- language interpretation
- meeting rooms
- meeting monitoring
- auditory description
- fitness centers
- convention centers
- judges chambers
- training facilities
- houses of worship
- tours
- offices
- cinemas
- schools
- trade shows
- amphitheaters
- parks
- zoos
- and many more!

## Listen Technologies Corporation

14912 Heritage Crest Way  
Salt Lake City, UT 84065-4818 U.S.A.  
Phone: 1.801.233.8992 or 1.800.330.0891  
Fax: 1.801.233.8995  
Email: info@ListenTech.com

Don't miss a single sound.



# LR-400 Display Receiver

**Listen**  
www.ListenTech.com



## LR-400 Features

1. Line-level earphone jack (3.5 mm) accepts either mono or stereo headsets.
2. Multifunction LED indicates power on, if batteries are low, and charging status.
3. Easy on/off volume control.
4. Receiver antenna is built into the earphone cord, eliminating additional wires while maximizing receiver effectiveness.
5. Look&Listen™ LCD Display shows channel selection, channel lock and battery level.
6. Manually lockable battery compartment door.
7. Charging plug port.
8. Adjustable squelch in 20 steps mutes audio on loss of RF signal.
9. Digitally tuned with UP, DOWN, and SEEK buttons behind manually lockable door. Electronically lock on channel by holding the SEEK button down 5 seconds to prevent tampering.
10. Uses two AA batteries. Selectable to use either alkaline or Listen's advanced NiMH Rechargeable AA Batteries. SmartCharge™ incorporated into receiver makes sure each unit receives the most beneficial charge.
11. Contact points for Listen's drop in charging cases.
12. Exclusive belt clip "loop" prevents unit from slipping off belt or strap.
13. When enabled, SQ provides highest audio quality available in its product category. SQ can be disabled for compatibility with other assistive listening equipment.

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# LR-400 Display Receiver Accessories



## Earphones



**Ear Speaker**  
LA-164



**Single Ear Bud**  
LA-161



**Dual Ear Bud**  
LA-162



**Consumer Camcorder Cable**  
LA-265



**Professional Camcorder Cable**  
LA-266



**Stereo Headset**  
LA-165



**Neckloop**  
LA-166



**Behind-the-Head Earphones**  
LA-170



**Sacrificial Cable**  
LA-275

## Connector Options

## Architectural Specifications

The FM receiver shall be capable of receiving on 57 wide and narrow band channels with a SNR of 80 dB or greater. The receiver shall be capable of seeking channels. The device shall have an adjustable squelch. The device shall have an audio frequency response of 50 Hz to 15 KHz,  $\pm 3$  dB at 72 MHz, or of 50 Hz to 10 kHz,  $\pm 3$  dB at 216 MHz. The device will incorporate a stereo headset jack that allows the user to plug in either a mono or stereo headset and listen to the audio normally. The device shall incorporate an LCD display that indicates channel, battery level, low battery, battery charging, RF signal strength. The receiver shall incorporate automatic battery charging circuitry for recharging of NiMH batteries. The Listen LR-400 is specified.

## Warranty

Listen Technologies Corporation (Listen<sup>®</sup>) warrants its receiver (LR-400) 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. 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, U.S.A. Listen will only accept returned products with prepaid shipping and with a return merchandise authorization number. To receive a return merchandise authorization number call 1.800.330.0891 or 1.801.233.8992. Please see [www.ListenTech.com](http://www.ListenTech.com) or contact Listen for complete warranty details.

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# LR-400 Display Receiver



| Specifications                                       |   | 72 MHz   | 216 MHz                            |
|--|---|--|------------------------------------|
| RF   | RF Frequency Range                        | 72.025 - 75.950 MHz  | 216.025 - 216.975 MHz              |
|  | Number of Channels                        | 57 (17 wide, 40 narrow)  | 57 (19 wide, 38 narrow)            |
|  | Sensitivity                               | .6uV typical, 1 uV maximum for 12dB SINAD  |                                    |
|  | Frequency Accuracy                        | ± .005% stability 0° to 50°C (32° to 122° F)   |                                    |
|  | Antenna                                   | Uses earphone cable  |                                    |
|  | Antenna Connector                         | 3.5 mm connector   |                                    |
|  | Squelch                                   | Programmable in 20 steps   |                                    |
| Compliance   | FCC Part 15, Industry Canada              |  |                                    |
| ** All system specifications are wireless end-to-end |   |  |                                    |
| Audio  | System Frequency Response                 | 63 Hz - 15 kHz (±3 dB)   | 63 Hz - 10 kHz (±3 dB)             |
|  | System Signal to Noise Ratio (A-weighted) | SQ enabled: 80dB; SQ disabled 60dB   | SQ enabled: 80dB; SQ disabled 50dB |
|  | System Distortion                         | <2% total harmonic distortion (THD) at 80% deviation   |                                    |
|  | Output                                    | 3.5mm connectors, unbalanced, 0dBu nominal output level, 16mW maximum, impedance 32 Ohms   |                                    |
| Controls   | Set Up Controls                           | Alkaline/NiMH batteries and SQ enable/disable and programmable squelch setting.  |                                    |
|  | User Controls                             | Volume, channel UP/DOWN, SEEK<br>(All controls except volume are electronically lockable, and are behind the door)   |                                    |
|  | Programming                               | Squelch can be adjusted for sensitivity and signal capture control. Channel selection can be locked by holding the SEEK button for 5 seconds. Unit cannot be programmed to seek only used channels, however, it is capable of entering squelch mode. |                                    |
| Indicators   | LCD Display                               | Indicates channel, RF signal strength, lock status, and squelch setting.   |                                    |
|  | LED                                       | Red, illuminates when unit is on. Flashes when batteries are low. Flashes when charging. Flashes when locked and user attempts to seek to another  |                                    |
| Power  | Battery Type                              | Two AA batteries, alkaline or NiMH   |                                    |
|  | Battery Life (Listen batteries)           | 30 hours alkaline (LA-361), 15 hours NiMH rechargeable (LA-362)  |                                    |
|  | Battery Charging (NiMH only)              | Fully automatic, 14 hours  |                                    |
|  | Power Supply Connector                    | 2.3mm OD by 0.7mm ID, barrel type connector. 7.5VDC, center positive <250mA. Drop in contact points for use with Listen charging/carrying cases.   |                                    |
|  | Compliance                                | UL Listed  |                                    |
| Physical   | Dimensions W x D x H                      | 3.0 x 1.0 x 4.25 in. (7.6 x 2.5 x 13 cm)   |                                    |
|  | Unit Weight                               | 3.9 oz. (111 g)  |                                    |
|  | Unit Weight with batteries                | 5.8 oz. (164.4 g)  |                                    |
|  | Shipping Weight                           | 1.0 lbs. (453.6 kg)  |                                    |
|  | Door                                      | Manually lockable. UP, DOWN and SEEK protected by door.  |                                    |
| Environmental  | Temperature - Operation                   | -10° to 40°C (14° to 104° F)   |                                    |
|  | Temperature - Storage                     | -20° to 50°C (-4° to 122° F)   |                                    |
|  | Humidity                                  | 0 to 95% relative humidity, non-condensing   |                                    |

Photographs, CAD drawings, etc. available at [www.ListenTech.com](http://www.ListenTech.com).

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