

# LR-500 Programmable Display Receiver

# Listen<sup>®</sup>

www.ListenTech.com

## Specify Part Number

LR-500-072  
or LR-500-216

Listen's LR-500 Programmable Display Receiver features the unique Look & Listen™ Display – Easily verify channel selection, whether or not channel is locked, battery level, and RF signal strength using the LR-500's LCD. Also, use the LCD to verify programming status, to lock out used channels and to adjust the units squelch. Ease-of-use has never been better for users and ease of programming has never been easier for installers!



## Benefits

- Programmability – Unneeded channels can be locked so this receiver will access only one or more channels of your choice.
- Exceptional audio quality! 80 dB signal-to-noise ratio!
- LCD makes maintenance easy – No need to guess about the status of your batteries or which channel you are on.
- Adjustable squelch in 20 steps mutes audio on loss of RF signal.
- 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!
- For easy access the UP, DOWN and SEEK buttons are available through the door.
- 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-500 Programmable Display Receiver

# Listen<sup>®</sup>

www.ListenTech.com



## LR-500 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. Manually lockable battery compartment door.
6. Charging plug port.
7. Contact points for Listen's drop in charging cases.
8. Look&Listen™ LCD Display shows channel selection, channel lock and battery level.
9. Digitally tuned with UP, DOWN, and SEEK buttons. Electronically lock on channel by holding the SEEK button down 5 seconds to prevent tampering programmable so you can lock out used channels.
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. Exclusive belt clip "loop" prevents unit from slipping off belt or strap.
12. Adjustable squelch in 20 steps mutes audio on loss of RF signal.
13. When enabled, SQ provides highest audio quality available in its product category. SQ can be disabled for compatibility with other assistive listening equipment.

Don't miss a single sound.

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

# LR-500 Accessories



www.ListenTech.com

## Earphones

## Connector Options



**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

## Architectural Specifications

The FM receiver shall be capable of receiving on 57 wide and narrow band channels with a SNR of 80dB or greater. The receiver shall be programmable to electronically lock out unneeded channels. 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 10k Hz,  $\pm 3$  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. The device shall incorporate an LCD display that indicates channel, battery level, low battery, battery charging, and RF signal strength. The receiver shall incorporate automatic battery charging circuitry for recharging of NiMH batteries. The Listen LR-500 is specified.

## Warranty

Listen Technologies Corporation (Listen®) warrants its receiver (LR-500) 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.

Don't miss a single sound.

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](mailto:info@ListenTech.com)

# LR-500 Programmable Display Receiver



www.ListenTech.com

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 32 to 122° F (0 to 50° C)	
	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	63Hz - 15kHz (±3dB)	63Hz - 10kHz (±3dB)
	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	Programmable channel selection (see below), alkaline/NiMH batteries and squelch, SQ enable/disable	
	User Controls	Volume, channel UP/DOWN, SEEK. All controls except volume are electronically lockable	
	Programming	Unit can be programmed so that only desired channels are displayed. Squelch can be adjusted for sensitivity and signal capture control. Channel selection can be locked by holding the SEEK button 5 seconds.	
Indicators	LCD Display	Indicates channel, RF signal strength, lock status, squelch, battery power level and channel programming	
	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 channel	
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 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 through door, other controls behind door (see Controls above).	
Environmental	Temperature - Operation	14 to 104° F (10 to 40° C)	
	Temperature - Storage	-4 to 122° F (-20 to 50° C)	
	Humidity	0 to 95% relative humidity, non-condensing	

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

Don't miss a single sound.

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](mailto:info@ListenTech.com)