

**Configuration:**

LR-500-072 Portable Programmable Display
RF Receiver (72 MHz)

LR-500-216 Portable Programmable Display
RF Receiver (216 MHz)

Product Overview:

One of Listen's most sophisticated receivers, the LR-500 Programmable Display Receiver offers the signature Look&Listen™ LCD Display that shows programming status, channel, lock, battery level, and RF signal strength. Channel selector buttons are easily accessible on the front of the unit. It has channel SEEK capability and is compatible with mono or stereo headsets. It takes AA batteries (alkaline or NiMH rechargeable). SmartCharge™ capabilities prevent overcharging. It's easy to use, easy to program.

Highlights:

- Superior Audio Quality - 80 dB signal-to-noise ratio, setting the industry's sound quality standard
- A choice between 57 channels, complete antenna and accessory options make Listen products ideal for a wide range of applications
- Programmability - Unneeded channels can be locked so this receiver will access only one or more channels of your choice
- 100 % Digital - Listen receivers are digitally-tuned so transmission won't drift; assurance that when you select a channel, it stays on the channel
- Uses standard alkaline or NiMH batteries
- 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
- Transformer charging plug or for the ultimate convenience drop in charging contacts
- Limited Lifetime Warranty with hassle-free support

Includes:

- One (1) LR-500-072 Portable Programmable Display FM Receiver (72 MHz)
- One (1) Owner's manual (72 MHz)

Architectural Specification:

The RF receiver shall be capable of receiving on 57 wide and narrow band channels. The receiver shall have a SNR of 80 dB 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 a squelch. The device shall have an audio frequency response of 50 Hz to 15 KHz, ± 3 dB at 72 MHz and 50 - 10 kHz (± 3 dB) at 216 MHz. The device shall incorporate a stereo headset jack that allows the user to plug in either a mono or stereo headset and listen to audio normally. The device shall incorporate an LCD display that indicates channel, battery level, low battery, battery charging, RF signal strength and channel lock status. The receiver shall incorporate automatic battery charging circuitry for recharging of NiMH batteries. The device

shall have a switch able option for the use of (2) alkaline or (2) NiMH batteries. The Listen LR-500-072 or LR-500-216 is specified.

Product Specification: Portable Programmable Display RF Receiver (72 MHz)	
Audio	
Frequency Response	50 Hz - 15 kHz (± 3 dB)
Signal-to-Noise Ratio	SQ enabled: 80dB; SQ disabled 60dB
Distortion	<2% total harmonic distortion (THD) at 80% deviation
Audio Output Jacks	3.5mm connectors, unbalanced, 0dBu nominal output level, 16mW maximum, impedance 32 Ohms
Controls	
User Controls	Channel up/down, SEEK, volume, Alkaline/NiMH batteries, SQ enable/disable
Programming	Channel lock, squelch, channel lock out
Indicators	
LEDs	Red, illuminated when unit is on. Flashes when batteries are low, or to indicate charging. Flashes when locked and SEEK is pushed.
LCD	Channel Designation, lock status, signal strength indication, programming
RF	
Frequency Range	72.025 - 75.950 MHz
Number of Channels	17 wide band, 40 narrow band
Sensitivity	.6uV typical, 1 uV maximum for 12 dB sinad
Frequency Accuracy	$\pm .005\%$ stability 32 to 122° (0 to 50°C)
Antenna Type	Uses earphone cable
Squelch	Programmable in 20 steps, automatic on loss of RF signal
Power	
Battery Type	Two AA batteries, alkaline or NiMH
Battery Life	30 hours alkaline (LA-361), 15 hours NiMH rechargeable (LA-362)
Battery Charging Time	Fully automatic, 13 hours
Power Supply	I/P 120VAC; O/P 7.5VDC 250 mA; Drop in contact points for use with charging cases. Power supply not included (LA-208)
Power Supply Connector	2.3mm OD by 0.7mm ID, barrel type connector 7.5 VDC, center positive <250mA. Drop in contact points for use with Listen charging cases
Compliance	RoHS, WEEE, UL, PSE, CE, CUL, TUV, CB compliant

Physical	
Height	3.00 in. (7.6 cm)
Width	5.00 in. (13.0 cm)
Depth	1.00 in. (2.5 cm)
Color	Dark Grey with white silk screening
Weight	3.9 oz (111 g)
Unit Weight with Batteries	5.8 oz (164 g)
Door	Manually Lockable. Up, down, and power buttons through door. Other controls behind door (see controls)
Shipping Weight	1.0 lbs. (0.5 kg)
Environmental	
Temperature - Operation	14 to 104° F (-10 to 40° C)
Temperature - Storage	-4 to 122° F (-20 to 50° C)
Relative Humidity	0 to 95% relative humidity, non-condensing
Compliance	
RF	FCC Part 15, Industry Canada