



**Product Overview:**

The LR-300 Portable Digital RFReceiver is a low cost digital receiver. It has the same exceptional audio quality as Listen's full-featured receivers and the same convenient recharging options. The LR-300 utilizes the 17 most common wide band channels, with a SEEK channel selection button behind the door panel. The LR-300 does not use an LCD, but instead a multi-function LED. The LR-300 is available for use with only on the 72 MHz frequency.

**Highlights:**

- Superior audio quality - 80 dB signal-to-noise ratio (SNR), setting the industry's sound quality standard
- 17 channels
- 100 % Digital - Listen receivers are digitally-tuned so the transmission won't drift
- Limited Lifetime Warranty with hassle-free support
- Uses standard alkaline or nickel-metal hydride(NiMH) batteries
- Built in SmartCharge™ won't allow batteries to overcharge. Charging circuitry is conveniently built into Listen's receivers
- Drop in charging contacts for any of Listen's many charging cases or a charging plug on the side of the unit
- Many accessory options make Listen products ideal for a wide range of applications

**Includes:**

- One (1) LR-300 Portable Digital RF Receiver
- One (1) Quick Reference Card

**Architectural Specification:**

The RF receiver shall be capable of receiving on 17 wide and narrow band channels. The receiver shall have a SNR of 80 dB or greater. The device shall be able to be locked on a single channel. The unit shall incorporate a multi-functional LED that indicates power, channel lock, low battery, and battery charging. The receiver shall be capable of seeking channels. The device shall have an audio frequency response of 50 Hz - 15 kHz ( $\pm 3$  dB) at 72 MHz. The device shall incorporate a stereo earphone jack that allows the user to plug in either a mono or stereo earphone(s). The device shall be able to enable companding with the SQ function. The unit shall operate off of two (2) AA batteries; alkaline or NiMH. The receiver shall incorporate automatic battery charging circuitry for recharging of NiMH batteries. The device shall have a switchable option for the use of alkaline or NiMH batteries. The Listen LR-300-072 is specified.

**Portable Digital RF Receiver (72 MHz) Product Features:**

1. A 3.5 mm (0.14 in.) earphone jack accepts either mono or stereo headsets. Receiver antenna is built into the earphone cord, eliminating additional wires while maximizing receiver effectiveness.
2. Multifunction LED indicates power on, if batteries are low, if the unit is locked on a channel when SEEK is pressed and charging status.
3. Easy on/off volume control.
4. Manually lockable battery compartment door.
5. Exclusive belt clip "loop" prevents unit from slipping off belt or strap.
6. Charging plug port.
7. Digitally tuned with SEEK button behind manually lockable door. Electronically lock on channel by holding the SEEK button down five (5) seconds to prevent tampering.
8. 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.
9. When enabled, SQ provides highest audio quality available in its product category. SQ can be disabled for compatibility with other assistive listening equipment.
10. Contact points for Listen's drop in charging cases.

Product Specification: Portable Digital RF Receiver (72 MHz)	
Audio	
Frequency Response	50 Hz - 15 kHz ( $\pm 3$ dB)
Signal-to-Noise Ratio	SQ enabled 80 dB, SQ disabled 60 dB
Distortion	<2% total harmonic distortion (THD) at 80% deviation
Audio Output Jacks	3.5 mm (0.14 in.) connectors, unbalanced, 0 dBu nominal output level, 16 mW maximum, impedance 32 ohms
Controls	
User Controls	SEEK, volume, Alkaline/NiMH batteries, SQ enable/disable
Programming	Channel lock
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	None
RF	
Frequency Range	72.025 - 75.975 MHz
Number of Channels	17 wide band

Sensitivity	.6uV typical, 1 uV maximum for 12 dB sinad
Frequency Accuracy	± .005% stability 32 to 122 °F (0 to 50 °C)
Antenna Type	Uses earphone cable
Squelch	None
Power	
Battery Type	Two (2) 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	4.25 in. (10.8 cm)
Width	2.75 in. (7.0 cm)
Length	1.50 in. (3.8 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, SEEK behind door
Shipping Weight	1.0 lbs (0.5 kg)
Environmental	
Temperature - Operation	-10 °C (14 °F) to +40 °C (104 °F)
Temperature - Storage	-20 °C (-4 °F) to +50 °C (122 °F)
Relative Humidity	0 to 95% relative humidity, non-condensing
Compliance	
RF	FCC Part 15, Industry Canada
Safety	RoHS