

Portable Display RF Receiver (72 MHz)



Configuration:

LR-400-072 Portable Display RF Receiver (72 MHz)

LR-400-216 Portable Display RF Receiver (216 MHz)

Product Overview:

The LR-400-072 Portable Display RF Receiver is a lower cost digital display receiver. It has the same exceptional audio quality and convenient recharging options as Listen's other full-featured receivers. The LR-400-072 can receive up to 17 wide band channels with 40 narrow band. The LR-400-072 has a digital display (LCD) to monitor channel selection, battery level, and signal strength. An LED on top of the receiver indicates if the unit is on, when batteries are low or if the unit is locked on a channel. It has channel SEEK capability and is compatible with mono or stereo earphones.

This product is approved by the FCC for use in the US. Please note that they cannot be used in all countries. Check with your local government or specific regulation with regard to broadcast frequency in your specific country. Note: FCC rules limit the use of this product to assistive listening.

Highlights:

- Superior audio quality – 80 dB signal-to-noise ratio (SNR), setting the industry's sound quality standard
- 57 channels
- 100 % Digital – Listen receivers are digitally-tuned so the transmission won't drift
- Limited Lifetime Warranty with hassle-free support
- Look & Listen™ LCD shows channel, battery status, and signal strength
- 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-400 Portable Display RF Receiver
- One (1) Quick reference card

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 device shall be able to be locked on a single channel. The receiver shall be capable of seeking channels. The unit shall incorporate a multi-functional LED that indicates power, channel lock, low battery, and battery charging. The device shall have a programmable squelch. The device shall have an audio frequency response of 50 Hz - 15 kHz (± 3 dB) at 72 MHz and 50 Hz - 10 kHz (± 3 dB) at 216 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 incorporate an LCD display that indicates channel, battery level, low battery, battery charging, RF signal strength and channel lock status. 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

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NiMH batteries. The device shall have a switchable option for the use of alkaline or NiMH batteries. The Listen LR-400-072 or LR-400-216 is specified.

Product Specification: Portable Display RF Receiver (72 MHz)	
Audio	
Frequency Response	50 Hz - 15 kHz (± 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 ohm
Controls	
User Controls	Channel up/down, SEEK, volume, Alkaline/NiMH batteries, SQ enable/disable
Programming	Channel lock, squelch
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, battery level, battery charging, RF signal strength and channel lock
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 °F (0 to 50 °C)
Antenna Type	Uses earphone cable
Squelch	Programmable in 20 steps, automatic on loss of RF signal
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 120 VAC; O/P 7.5 VDC 250 mA, drop in contact points for use with charging cases, power supply not included (LA-208)
Power Supply Connector	0.09 in. (2.3 mm) OD by 0.7 mm ID, barrel type connector 7.5 VDC, center positive <250 mA, drop in contact points for use with Listen charging cases
Compliance	RoHS, WEEE, UL, PSE, CE, CUL, TUV, CB

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Physical	
Height	4.25 in. (10.8 cm)
Width	2.75 in. (7.0 cm)
Length	1.50 in. (3.8 cm)
Weight	3.9 oz (111 g)
Unit Weight with Batteries	5.8 oz (164 g)
Door	Manually lockable, SEEK/channel select behind the door
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, Part 90, Industry Canada
Safety	RoHS