

LR-400-150

Portable Display FM Receiver



Configurations

LR-400-150

The LR-400-150 Portable Display FM Receiver is our most popular model of receiver. This receiver is excellent for assistive listening, language interpretation, tour group or personal use – anywhere you need to receive transmitted audio. The LCD display is this receiver's most desired feature – it makes it easy to view the selected channel, battery life, channel lock, and RF signal strength. It can be tuned to all frequencies available in our 150 MHz products; once a frequency is selected it can be locked to prevent tampering. The LR-400-150 offers exceptional audio quality and convenient recharging options. Whether its voice or music, the LR-400-150 allows everyone in the audience to have a personally enhanced audio experience.

Highlights

- Look & Listen™ LCD shows channel, battery status, channel lock and signal strength.
- Superior audio quality – 80 dB signal-to-noise ratio (SNR), setting the industry's sound quality standard.
- With a choice between 32 channels, Listen products are ideal for a wide range of applications.
- 100 % Digital – Listen receivers are digitally-tuned so the transmission won't drift; assurance that when you select a channel, it stays on the channel.
- 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.

Includes

LR-400-150 Portable Display FM Receiver (150 MHz)
Quick Reference Card

Used With

LT-700-150 Portable FM Display Transmitter (150 MHz)
LT-800-150 Stationary FM Transmitter (150 MHz)

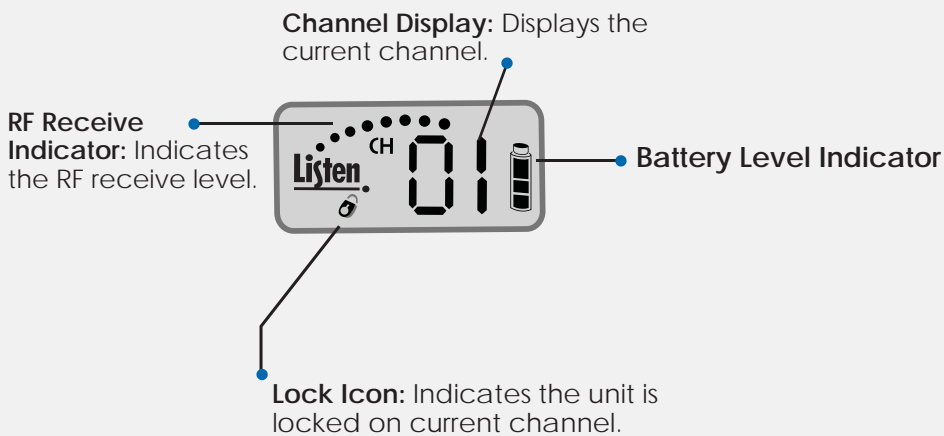
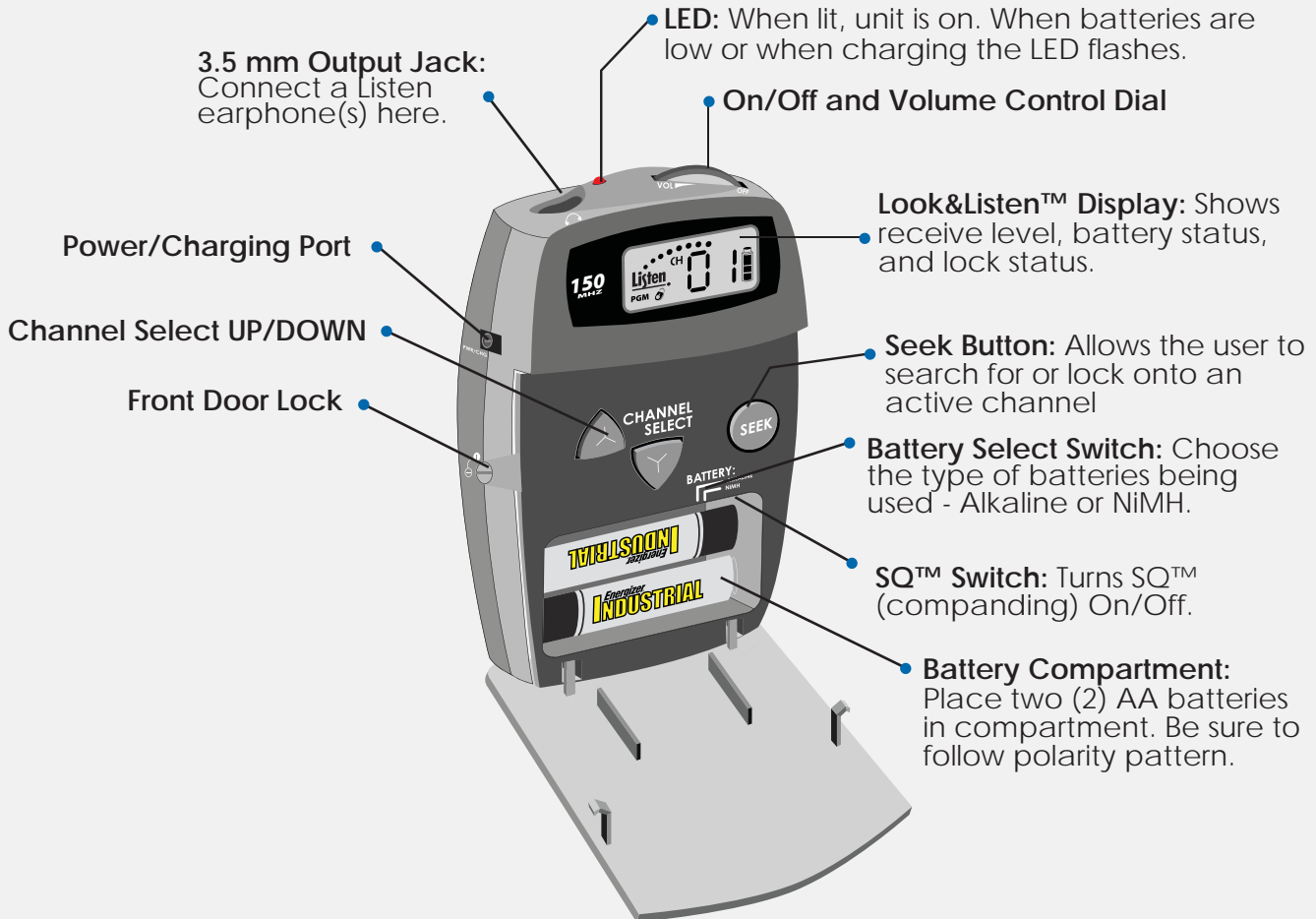
Architectural Specifications

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The FM receiver shall be capable of receiving on 32 channels. The receiver shall have a SNR of 80 dB or greater. The receiver shall be capable of seeking for open channels and locked on an active channel. The device shall have a squelch. The unit shall have an audio frequency response of 50 Hz to 15 kHz (± 3 dB). 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. The receiver shall incorporate automatic battery charging circuitry. The device shall be able to use two (2) AA alkaline or NiMH batteries. The Listen LR-400-150 is specified.

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Functionality Quick Reference



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Specifications*

Audio	RF Frequency Range	150.8000 MHz - 152.3500 MHz
	Number of Channels	6 wide band, 26 narrow band
	Sensitivity	.6uV typical, 1 uV maximum for 12 dB sinad
	Frequency Accuracy	± .005% stability 32 to 122 °F (0 to 50 °C)
	Antenna	Uses earphone cable
	Squelch	Programmable in 20 steps, automatic on loss of RF signal
	System Frequency Response	50 Hz - 15 kHz (±3 dB)
	System Signal to Noise Ratio	SQ enabled 80 dB, SQ disabled 60 dB
	System Distortion	<2% total harmonic distortion (THD) at 80% deviation
	Output	3.5 mm (0.14 in.) connectors, unbalanced, 0 dBu nominal output level, 16 mW maximum, impedance 32 ohm

Controls & Indicators	User Controls	Channel up/down, SEEK, volume
	Set-up Controls (Battery Compartment)	Alkaline/NiMH batteries, SQ enable/disable
	Programming	Channel lock, squelch
	LED	Red, illuminated when unit is on, flashes when batteries are low or to indicate charging, flashes when locked and SEEK is pushed
	Display	Channel designation, battery level, battery charging, RF signal strength and channel lock

Power	Battery Type	Two (2) 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, 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
	Power Supply Compliance	RoHS, WEEE, UL, PSE, CE, CUL, TUV, CB

Physical	Dimensions (H x W x D)	4.25 x 2.75 x 1.50 in. (10.8 x 7.0 x 3.8 cm)
	Color	Dark Grey with white silk screening
	Unit Weight	3.9 oz (111 g)
	Unit Weight with batteries	5.8 oz (164 g)
	Shipping Weight	6.1 oz (173 g)
	Door	Manually lockable (on sides), SEEK/channel select behind the door

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

* Specifications are subject to change without notification.