

LR-42

IR Stethoscope 4-Channel Receiver

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Listen[®]
www.listentech.com



Users will love the comfortable, easy to use Listen LR-42 Stetho Receiver. This all-in-one receiver can receive up to four (4) channels in mono or stereo. It uses standard AAA alkaline batteries for more than 30 hours of use, or a NiMH rechargeable battery pack that delivers 15 hours of use per charge. The unit features auto shut-off after 30 minutes of no audio carrier, further extending battery life. The LR-42 boasts high performance audio specs in a small package and is compatible with other manufacturers' products. The LR-42 is used for government compliance (such as ADA), assistive listening, language interpretation, live theatre, houses of worship, courtrooms, secure rooms and auditory description.

Configuration

LR-42

Highlights

- Secure wireless communication – ideal for applications where isolation of the signal is important or where security is a concern
- Stylish, all-in-one unit stetho design – no wires to tangle for easy distribution
- Receives up to four (4) channels mono or stereo – provides outstanding performance with crystal clear sound
- Uses standard AAA batteries (available anywhere) or rechargeable Listen NiMH battery pack – gives you ultimate flexibility in managing battery life
- Auto shut-off feature (after 30 minutes of no carrier) - saves battery life
- Ear tips can be easily cleaned or replaced

Architectural Specification

The stethoscope IR receiver shall be capable of receiving on four (4) carriers (2.3, 2.8, 3.3, 3.8 MHz) and the channel shall be displayed on one (1) of four (4) front panel LEDs. The receiver shall be capable of being locked on a channel. The receiver shall be capable of receiving a stereo signal on each of the four carriers. The receiver shall have a SNR of 60 db or greater and have built in squelch control. The device shall have an audio frequency response of 63 Hz to 15 kHz, +/- 3db and shall have distortion of less than 2%. The device shall operate for 30 hours with two (2) AAA alkaline batteries and 15 hours with two (2) AAA NiMH rechargeable batteries. The receiver shall be covered by a limited lifetime warranty. The LR-42 is specified.

Requires

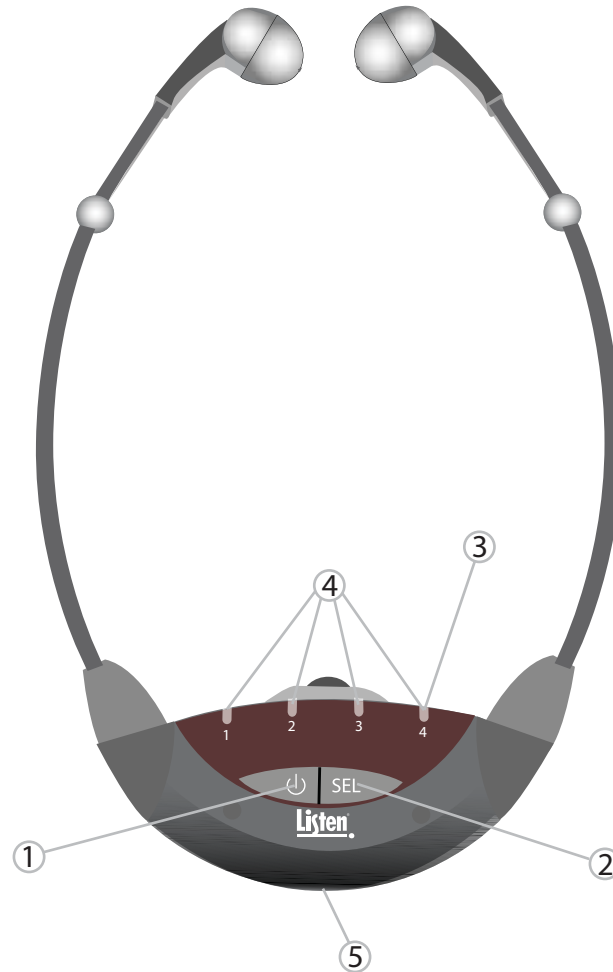
Requires batteries.
LA-363 High Capacity AAA Alkaline Batteries (2)
LA-364 NiMH Rechargeable Battery Pack for IR Receivers

Includes

LR-42 IR Stethoscope 4-Channel Receiver
LA-152 IR Receiver Battery Compartment (Non-Charging)
Quick reference card

Used With

LT-82 Stationary IR Transmitter
LA-140 Stationary IR Radiator
LR-44 IR Lanyard 4-Channel Receiver



Product Features

1. Power: Press to turn on the unit, press and hold to turn the unit off.
2. SEL: Press to change channels.
3. Indicates operating channel 1 through 4.
4. Indicates status of the batteries when the PWR button is pressed momentarily.
5. Removable battery compartment (AAA alkaline batteries or NiMH rechargeable battery pack).

Accessories



LA-350

Batteries / Charging

LA-152 IR Receiver Battery Compartment (Non-charging)
LA-350 8-Unit IR Charging/Storage Station
LA-351 8-Unit IR Storage Station



LA-151

Miscellaneous

LA-151 Replacement Eartips for LR-42 (2)

	Specifications	LR-42
RF	Carrier Frequencies	2.3 MHz, 2.8 MHz, 3.3 MHz, 3.8 MHz
	Number of Channels	Four (4) selectable channels
	IR Detectors	Two (2) detectors under front IR lens
	Sensitivity	One (1) nW/cm ² at 40 db SNR
	Frequency Accuracy	+/- .005% stability 0 to 50C
	Squelch	Automatic on loss of RF signal (40 db SNR)
	Compliance	FCC Part 15, Industry Canada, CE, RoHS

Audio	** All system specifications are wireless end-to-end	
	System Frequency Response	63Hz - 15kHz (+/- 3dB)
	System Signal to Noise Ratio (A-weighted)	Mono: >60dB
		Stereo: >52dB
	System Distortion	<2% total harmonic distortion (THD)
	Audio Output Jacks	None. Built in Stethoscope speakers
Audio Output Power	20 mW maximum at 32 ohms	

Controls	User Controls	Volume, Power, Channel Select
	Programming	Channel Lock, Auto Seek, Channel Lock-Out, Squelch

Indicators	Unit Power	Indicated by current channel selection LED
	Channel Selection	Red LED illuminates on the current channel selection

Power	Battery Type	Two (2) AAA alkaline batteries or NiMH battery pack
	Battery Life	30 hours alkaline, 15 hours NiMH rechargeable pack (LA-364)
	Battery Charging	Fully automatic with NiMH battery pack and LA-350

Physical	Dimensions (H x W x D)	1.80 x 4.00 x 0.75 in. (46 x 102 x 19 mm)
		Stethoscope arm length 8 in. (203 mm)
	Color	Dark grey with white silk screening
	Unit Weight without batteries	2.15 ounces (60 grams)
	Unit Weight with batteries	2.95 ounces (85 grams)
Shipping Weight	1.0 lbs. (453 grams)	

Environmental	Temperature - Operation	-14° F (-10° C) to 104° F (40° C)
	Temperature - Storage	-4° F (-20° C) to 122° F (50° C)
	Humidity	0 to 95% relative humidity, non-condensing

Related Systems

LS-80 – Basic Stationary IR System

Includes:

- (1) LT-82-01 Stationary IR Transmitter
- (1) LA-140-GY Stationary IR Radiator
- (4) LR-42 Stationary IR Stethoscope 4-Channel Receiver
- (4) LA-363 High Capacity AAA Alkaline Batteries (2)
- (1) LA-304 Assistive Listening Notification Signage Kit



LS-81 – Performance Stationary IR System

Includes:

- (1) LT-82-01 Stationary IR Transmitter
- (1) LA-326 Universal Rack Mounting Kit
- (2) LA-140-GY Stationary IR Radiator
- (4) LR-42 Stationary IR Stethoscope 4-Channel Receiver
- (4) LA-363 High Capacity AAA Alkaline Batteries (2)
- (1) LA-351 Stationary IR Storage Station
- (1) LA-304 Assistive Listening Notification Signage Kit



LS-82 – Advanced Installed IR System

Includes:

- (1) LT-82-01 Stationary IR Transmitter
- (1) LA-326 Universal Rack Mounting Kit
- (2) LA-140-GY Stationary IR Radiator
- (8) LR-42 Stationary IR Stethoscope 4-Channel Receiver
- (8) LA-364 NiMH Rechargeable Battery Pack for Stationary IR Receivers
- (1) LA-350-01 8-Unit IR Charging/Storage Station
- (1) LA-304 Assistive Listening Notification Signage Kit



LS-83 – 4-Channel, 48-Listener Stationary IR System

Includes:

- (4) LT-82-01 Stationary IR Transmitter
- (2) LA-326 Universal Rack Mounting Kit
- (3) LA-89 Interconnection Coaxial Cable
- (8) LA-140-GY Stationary IR Radiator
- (48) LR-42 Stationary IR Stethoscope 4-Channel Receiver
- (48) LA-364 NiMH Rechargeable Battery Pack for Stationary IR Receivers
- (6) LA-350-01 8-Unit IR Charging/Storage Station
- (2) LA-304 Assistive Listening Notification Signage Kit



LS-84 – Expanded Performance (2-Channel) Stationary IR System

Includes:

- (2) LT-82-01 Stationary IR Transmitter
- (1) LA-326 Universal Rack Mounting Kit
- (1) LA-140-GY Stationary IR Radiator
- (5) LR-42 Stationary IR Stethoscope 4-Channel Receiver
- (5) LA-364 NiMH Rechargeable Battery Pack for Stationary IR Receivers
- (1) LA-350-01 8-Unit IR Charging/Storage Station
- (1) LA-304 Assistive Listening Notification Signage Kit



LS-85 – Expanded Basic Stationary IR System

Includes:

- (1) LT-82-01 Stationary IR Transmitter
- (1) LA-326 Universal Rack Mounting Kit
- (1) LA-140-GY Stationary IR Radiator
- (3) LR-42 Stationary IR Stethoscope 4-Channel Receiver
- (1) LR-44 Stationary IR Lanyard 4-Channel Receiver
- (1) LA-166 Neck Loop
- (1) LA-165 Stereo Headphones
- (4) LA-363 High Capacity AAA Alkaline Batteries (2)
- (1) LA-304 Assistive Listening Notification Signage Kit



Frequently Asked Questions

- Q How many receivers can be used in a system?
A Infinite number - there is no limit.
- Q How do you replace the batteries in the receiver?
A For non-rechargeable batteries (AAA alkaline), remove the battery compartment and replace the batteries with fresh AAA alkaline batteries. For rechargeable NiMH batteries, simply replace the sealed battery pack with a freshly charged pack.
- Q How do I recharge the NiMH batteries?
A Use the Listen LA-350 8-Unit Charging/Storage unit. This charging unit will charge batteries that are in the receivers, or batteries that are in our NiMH Rechargeable Battery Pack.
- Q How does the receiver know if the signal is mono or stereo?
A It automatically detects the type of signal and responds accordingly.
- Q My stereo signals are a bit noisy. How can I resolve this problem?
A Add more radiators. When you are transmitting stereo signals, the signal is degraded slightly. Increasing your radiator coverage will help mitigate this.
- Q What happens when there is no signal from the radiators?
A The receiver's audio signal is muted and after 30 minutes the unit automatically shuts down to conserve battery life.
- Q How does the user select carriers?
A By pressing the SELECT button on the front of the receiver.
- Q Can the receiver automatically find a carrier?
A Yes, it will automatically seek and find all available carriers when the power is turned on. If no carrier is found, the unit will stop on the last used channel.
- Q Can I use mono or stereo headphones with the LR-44?
A Yes.