

## IR Stethoscope 4-Channel Receiver



### Product Overview:

The LR-42 stethoscope receiver is a very easy to use, comfortable and user friendly. 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.

### 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

### Includes:

- One (1) LR-42 IR Stethoscope 4-Channel Receiver
- One (1) LA-152 IR Receiver Battery Compartment (Non-Charging)
- One (1) Quick Reference Card

### 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.

### IR Stethoscope 4-Channel Receiver Product Features:

1. Power: Press to turn on the unit, press and hold to turn the unit off

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2. SEL: Press to change channels
3. (Line to one LED) Indicates operating channel 1 through 4
4. (Line to all LEDS) Indicates status of the batteries when the PWR button is pressed momentarily
5. Removable battery compartment (AAA alkaline batteries or NiMH rechargeable battery pack)

Product Specification:IR Stethoscope 4-Channel Receiver	
Audio	
System Distortion	<2% total harmonic distortion (THD)
Audio Output Jacks	Built in Stethoscope speakers
Audio Output Power	20 mW maximum at 32 ohms
Frequency Response	63 Hz - 15 kHz (+/- 3 dB)
Signal-to-Noise Ratio	Mono: >60 dB Stereo: >52 dB
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
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 <sup>2</sup> at 40 db SNR
Frequency Accuracy	+/- .005% stability 0 to 50C
Squelch	Automatic on loss of RF signal (40 dB SNR)
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 Time	Fully Automatic with NiMH battery pack and LA-350 charger
Physical	
Length	Stethoscope Arm length 8 in. (203 mm)

## IR Stethoscope 4-Channel Receiver

Color	Dark Grey with White Silk Screening
Weight	2.15 oz. (60 g)
Unit Weight with Batteries	2.95 oz. (85 g)
Shipping Weight	1.0 lb. (0.5 kg)
Height	1.80 in. (46 mm)
Width	4.00 in. (102 mm)
Depth	.75 in. (19 mm)
<b>Environmental</b>	
Temperature - Operation	14 ■F (-10 ■C) to 104 ■F (+40 ■C)
Temperature - Storage	-4 ■F (-20 ■C) to (122 ■F)
Relative Humidity	0 to 95% relative humidity, non-condensing
<b>Compliance</b>	
Standards	FCC Part 15, Industry Canada, CE, RoHS