



#### Configuration:

LR-4200-IR Intelligent DSP IR Receiver

#### Product Overview:

The LR-4200-IR receiver from Listen Technologies offers outstanding audio clarity and quality with the best range and reception in its class.

Part of our Intelligent Digital Signal Processing (iDSP) line, the LR-4200-IR is the smallest device of its kind, resulting in a compact unit that won't burden the end user. An integrated neck loop/lanyard makes each receiver easy to wear, and the DSP loop driver offers an improved listening experience for anyone with a T-coil-equipped hearing aid. Dual 3.5mm output jacks also allow receivers to be shared between users.

Each receiver is also equipped with a micro USB connection, making it easy for venues to charge and update the units via any standard USB port.

Extended speaking sessions, presentations and more can be challenging for other devices, but the LR-4200-IR incorporates advanced rechargeable batteries that offer long life and reliable power. Charge status, along with channel information and volume level, are easy to read on the integrated OLED display.

From corporate environments to conference proceedings and beyond, the LR-4200-IR is an outstanding receiver choice for any venue looking to offer convenient, reliable assistive listening.

#### Highlights:

- High performance IR receiver offering best-in-class sensitivity and range
- Integrated neck loop/lanyard with DSP loop driver for an enhanced T-coil listening experience
- Smallest device of its kind makes it easier to wear and use and for venues to dispense, store and maintain
- OLED display showing channels, battery status, channel status, volume level, and more
- Lanyard and belt clip options offer convenient and discreet choices for the end user
- Advanced rechargeable battery technology eliminates the costs and hassles associated with frequent battery replacement
- Designed for single-channel applications

#### Includes:

One (1) LR-4200-IR Intelligent DSP IR Receiver\* \*The LR-4200-IR comes with a quick start guide and a non-proprietary field replaceable Lithium-ion battery.

Product Specification: Intelligent DSP IR Receiver	
Audio	
System Distortion	< 2% total harmonic distortion (THD) at 80% deviation
Audio Output Jacks	Two (2) 3.5 mm (0.14 in.) connectors, unbalanced, 0 dBu nominal output level, 16 mW maximum, impedance 32 ohm, accepts mono or stereo phone plug or LA-430 Intelligent Ear Phone/Neck Loop Lanyard

Product Specification: Intelligent DSP IR Receiver	
System Frequency Response	63 Hz - 15 kHz ( $\pm 3$ dB)
System Signal to Noise Ratio	> 60 dB
Controls	
User Controls	Power on/off and volume up/down
Programming	Via software and USB port, Auto Seek, Jack Sense, Squelch, Auto Power, Auto Off, Stereo, Brightness, Channel Name
Set-up Controls	Press and hold up/down volume buttons for 5 seconds to enter channel adjust, use up/down to select channel
Indicators	
Display	OLED - Channel designation, battery level, unit number, charging status, volume status
LED	Flashes when batteries are low or to indicate charging, solid when fully charged
RF	
Carrier Frequencies	2.3 MHz, 2.8 MHz, 3.3 MHz, 3.8 MHz
Number of Channels	Four (4) selectable channels
Frequency Accuracy	$\pm .005\%$ stability 32 to 122 °F (0 to 50 °C)
Modulation	FM Wideband, $\pm 50$ kHz deviation max, 50 $\mu$ S de-emphasis
IR	
Coverage Area	30,000 ft <sup>2</sup> (2787 m <sup>2</sup> ) single channel with LT-84/LA-141 or 40,000 ft <sup>2</sup> (3716 m <sup>2</sup> ) single channel with LT-82/LA-140
Squelch	Programmable in 20 steps, automatic on loss of IR signal
Power Save Mode	Turns unit off after a specified time of no IR signal, default is 30 minutes
Sensitivity	Better than one (1) nW/cm <sup>2</sup> @40 dB SNR
Power	
Power Supply	Micro USB connector, 5 V, 500 mA
Battery Type	Lithium Ion
Battery Life	8 Hours of typical use
Battery Charging Time	Fully charged in 2.5 Hours
Physical	
Color	Flat Black
Unit Weight with Batteries	2.8 oz. (79.4 g)
Shipping Weight	3.5 oz. (99.2 g) with a 1 lbs. (0.45 kg) minimum
Dimensions (H x W x D)	3.75 x 2.0 x 0.64 in. (9.6 x 5.0 x 1.7 cm)
Unit Weight	1.9 oz. (53.9 g)
Dimensions with Belt Clip	3.75 x 2.0 x 0.80 in. (9.6 x 5.0 x 2.1 cm)
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

Product Specification: Intelligent DSP IR Receiver	
Compliance	
Standards	FCC Part 15, ICS-03, CE, RoHS, WEEE, ADA 706, CBC 11B-706