



Configuration:

LR-4200-IR Intelligent DSP IR Receiver

Product Overview:

The LR-4200-IR receiver is one of Listen Technologies’ new generation of personal listening products, iDSP or Intelligent Digital Signal Processing.

The LR-4200-IR is a high performance IR receiver with extreme sensitivity providing the best pickup and range of any device of its kind. iDSP is the smallest device of its kind, making it easy for the end user to wear and operate and easier for the venues to dispense, store and maintain. The integrated neck loop/lanyard with DSP loop driver, improves the listening experience for T-coil users. The advanced green battery technology dramatically reduces costs of ownership and hassles while reducing the number of batteries in landfills. A field replaceable Lithium-ion battery is included with the unit.

The LR-4200-IR has an OLED display which shows unique channel names, battery status, channel status, volume status and charge activation. Connect the iDSP neck loop/lanyard or ear phones via two 3.5 mm output jacks (receivers can be shared). The Micro USB connection is used with the free [iDSP software suite](#) for set up, programming, inventory management, firmware updates and charging via any standard USB port. The LR-4200-IR is compatible with all iDSP accessories.

The result is an exceptional listening experience in small-to-medium places where it’s difficult to hear, like: theaters, boardrooms, classrooms, courtrooms, houses of worship, and more.

Highlights:

- High performance IR receiver with extreme sensitivity providing the best pickup and range of any device of its kind
- Integrated neck loop/lanyard with DSP loop driver improves the listening experience for T-coil users
- Smallest device of its kind makes it easier to wear and use and for venues to dispense, store and maintain
- OLED display which shows unique channel names, battery status, channel status, volume status and charge activation
- Limited Lifetime Warranty with hassle-free support
- Can be worn around the neck or with the belt clip, making it the most discreet listening device on the market
- Advanced green battery technology dramatically reduces costs of ownership and hassles while reducing the number of batteries in the landfill
- Use 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
System Frequency Response	63 Hz - 15 kHz (±3 dB)

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System Signal to Noise Ratio	Mono: > 60 dB, Stereo: > 52 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	± .005% stability 32 to 122 °F (0 to 50 °C)
Modulation	FM Wideband, ±50 kHz deviation max, 50 uS de-emphasis
IR	
Coverage Area	30,000 ft ² (2787 m ²) single channel with LT-84/LA-141 or 40,000 ft ² (3716 m ²) 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 ² @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
Compliance	

Product Specification: Intelligent DSP IR Receiver	
Standards	FCC Part 15, ICS-03, CE, RoHS, WEEE