



Configuration:

LR-5200-IR Advanced Intelligent DSP IR Receiver

Product Overview:

Listen Technologies’ LR-5200-IR receiver—one of the receivers in the next-gen Intelligent Digital Signal Processing (iDSP) line—gives assistive listening users an option for high-performance audio in a compact device that offers best-in-class pickup and range. The LR-5200-IR also provides houses of worship, theaters, lecture halls, and other venues with an affordable and easy-to-manage solution when adding or expanding their assistive listening options.

The built-in rechargeable battery technology makes the LR-5200-IR an economical and environmentally friendly choice, reducing the costs of operation and ownership while offering a strong, reliable receiver. Each unit features a micro-USB connection which, in addition to being used for quick and convenient battery charging, also allows for fast and simple firmware updates, setup, and programming.

The integrated neck loop and lanyard with DSP loop driver makes the LR-5200-IR easy to wear and simple to use for listeners with T-coil equipped hearing aids. Additionally, the OLED display built in to each receiver provides at-a-glance information including channel status, battery level, and more.

From businesses to banquet halls, theaters, and more, the LR-5200-IR makes an outstanding choice for a comfortable, clear, and reliable personal listening receiver.

Highlights:

- High-performance, ultra-sensitive infrared personal listening receiver offering the best reception, sensitivity, and range in its class
- Compact design—the smallest of its kind—makes it easier to wear, dispense, store, and maintain
- Advanced rechargeable battery technology reduces costs and provides long-lasting charge for extended use
- Integrated neck loop and lanyard with DSP loop driver provides an ideal listening experience for users with T-coil equipped hearing aids
- OLED display offers at-a-glance information including channel status, battery level, volume, and more
- Backed by Listen Technologies’ limited lifetime warranty and hassle-free support

Includes:

One (1) LR-5200-IR Advanced Intelligent DSP IR Receiver* *The LR-5200-IR comes with a quick start guide and a non-proprietary field replaceable Lithium-ion battery.

Product Specification: Advanced 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: Advanced Intelligent DSP IR Receiver	
System Frequency Response	63 Hz - 15 kHz (± 3 dB)
System Signal to Noise Ratio	> 60 dB
Controls	
User Controls	Power on/off, volume up/down, Listen button for end user channel selection
Programming	Via software and USB port, Auto Seek, Jack Sense, Squelch, Auto Power, Auto Off, Stereo, Brightness, Channel Name, Channel button, Channel Lock
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, ± 50 kHz deviation max, 50 μ S 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

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