

**Configuration:**

LS-90-01 ListenIR iDSP Level I System (North America)

Product Overview:

This pre-configured ListenIR iDSP Level I System includes everything needed for secure transmission of audio for assistive listening compliance in venues with a capacity of up to 50 seats.

Ideal for small-to-medium size corporate boardrooms, courtrooms, training rooms, classrooms, and theaters.

The LS-90 system includes the new LT-84 ListenIR Transmitter/Radiator Combo, the new LR-4200-IR Intelligent DSP IR Receivers and a LA-423 4-Port USB Charger. This IR system is simple to use, cost effective, designed to stealthily blend in, and offers significantly more coverage than similar products, ensuring the entire room has coverage without gaps, including corners. The system offers coverage up to 30,000 ft² (2787 m²).

Highlights:

- Pre-configured system includes everything needed for secure transmission of audio for assistive listening compliance in venues with a capacity of up to 50 seats
- Outstanding coverage up to 30,000 ft² (2787 m²)
- Ideal for small-to-medium size corporate boardrooms, courtrooms, training rooms, classrooms, and theaters
- Easy to specify, install and use
- Outstanding performance ensures crystal clear sound for listeners
- Integrated neck loop/lanyard with DSP loop driver improves the listening experience for T-coil users
- Use for single channel applications

Includes:

- One (1) LT-84-01 ListenIR Transmitter/Radiator Combo
- Two (2) LR-4200-IR Intelligent DSP IR Receiver
- Two (2) LA-430 Intelligent Ear Phone/Neck Loop Lanyard
- Two (2) LA-401 Universal Ear Speaker
- One (1) LA-423 4-Port USB Charger
- One (1) LA-901 Listen Disinfecting Wipes (Cylinder 75 Count)

Architectural Specification:

Furnish and install an IR wireless assistive listening system for use by the hearing-impaired. The assistive listening system (ALS) shall be capable of broadcasting up to two (2) audio channels with the choice of four (4) mono carrier frequencies; 2.3, 2.8, 3.3 and 3.8 MHz. The system coverage area shall be up to 30,000 ft² (2787 m²) with single channel transmission. The system shall have a SNR of 60 dB or better and THD of less than 2%. The system shall have an audio frequency response of 63 Hz to 15 kHz, +/- 3db.

ListenIR iDSP Level I System

The system shall have two (2) independent mixing audio inputs, one for each transmission channel. Each mixing input shall consist of one (1) 3.5 mm Microphone input, one (1) balanced Phoenix type input and one (1) unbalanced RCA input. The system shall have independent channel audio processing with Limiting, Compression and Noise Gate as well as transmit level control and level indication via an LED. The system shall provide Power and RF signal for up to Four (4) Expansion Radiators over CAT-5 cable for additional coverage.

The system receivers shall be capable of receiving on four (4) wide band channels (carriers), Channel 1 (2.3 MHz), Channel 2 (2.8 MHz), Channel 3 (3.3 MHz) and Channel 4 (3.8 MHz). The receivers shall be tuned to a single channel and users shall not be able to change the channel. The receivers shall have the option of being lanyard or belt clip worn and the lanyard shall incorporate an integrated neck loop for compatibility with T-coil hearing aids. The receivers shall be intelligent and provide customized audio to either earphones or the integrated neck loop based upon which is connected. The receivers shall have two (2) 3.5 mm (TRRS) connectors to drive the integrated neck loop lanyard or up to two (2) mono or stereo earphones. The receivers shall incorporate a multi-functional display (OLED) that indicates battery status, inventory number, volume level and a customizable channel name. The receivers shall employ a unique iDSP™ noise reduction technology. The receivers shall be fully programmable via PC software. The receivers shall have a micro USB connector used for programming/setup, inventory control, charging and firmware upgrades. The receivers shall incorporate automatic battery charging circuitry and use a non-proprietary lithium ion battery. The receivers shall automatically turn on when removed from the charging device and automatically turn off when returned to the charging device. The receivers shall have additional charging contacts to allow for multiple charging options. The receivers shall be covered by a hassle free limited lifetime warranty.

The Listen Technologies products are specified.

Furnish and install the following:

- Listen Technologies LT-84 ListenIR Transmitter/Radiator Combo (Qty: 1 ea.) Includes: LA-210 power supply, LA-344 universal mounting hardware, and LA-303 multi-lingual assistive listening notification sign (English, Spanish, French)
- Listen Technologies LR-4200-IR Intelligent iDSP IR Receiver (Qty: 2 ea.)
- Listen Technologies LA-430 Intelligent Ear phone/Neck Loop Lanyard (Qty: 2 ea.)
- Listen Technologies LA-401 Universal Ear Speaker (Qty: 2 ea.)
- Listen Technologies LA-423 4-Port USB Charger (Qty: 1 ea.)
- Listen Technologies LA-901 Listen Disinfecting Wipes (Cylinder 75 CT) (Qty: 1 ea.)