

**Configuration:**

LS-53-216 Listen iDSP  
Prime Level I Stationary  
RF System (216 MHz)

**Product Overview:**

The LS-53 comes equipped with the LR-4200-216 receiver, Listen's new generation of personal listening products, iDSP or Intelligent Digital Signal Processing. The iDSP 216 MHz receiver revolutionizes how an RF system works, offering precise clarity with 20 dB less hiss than other RF receivers.

The new integrated neck loop improves the experience for people who have hearing aids and cochlear implants with telecoils. Sleek and small, the iDSP receiver has a field replaceable, non-proprietary rechargeable lithium-ion battery, making obsolete the use of alkaline and NiMH batteries. Battery life is eight hours, with a 2.5-hour charge time.

The result is an innovative personal listening technology and solution that delivers an exceptional listening experience for end users and an optimal experience for the venues that provide listening devices.

Venues will find this system ideal when the receiver channel is not changed regularly by the user, locking on one channel is needed, but programming multiple channels are not, and for applications like: assistive listening, single channel language interpretation, and personal use.

The included integrated neck loop/lanyard and signage ensures the system meets the minimum legislative requirements for venues with a capacity up to 100. Telescoping antenna gives smaller venues the option for using the transmitter within a 750 ft. (228.6 m) range.

**Highlights:**

- Advanced DSP SQ™ noise reduction technology delivers 20 dB less noise and hiss than any other listening device
- 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 for venues to dispense, store and maintain
- Limited Lifetime Warranty with hassle-free support
- Advanced green battery technology dramatically reduces costs of ownership and hassles while reducing the number of batteries in the landfill
- Ensures public venues deliver an exceptional listening experience while meeting new legislative requirements for assistive listening

**Includes:**

- One (1) LT-800-216-01 Stationary RF Transmitter (216 MHz)
- One (1) LA-102 Telescoping Top Mounted Antenna (216 MHz)
- Four (4) LR-4200-216 Intelligent DSP RF Receiver (216 MHz)
- Four (4) LA-401 Universal Ear Speaker
- Two (2) LA-430 Intelligent Earphone/Neck Loop Lanyard
- One (1) LA-423 4-Port USB Charger
- One (1) LPT-A107-B Dual RCA to Dual RCA Cable 6.6 ft. (2 m)
- One (1) LA-304 Assistive Listening Notification Signage Kit

**Architectural Specification:**

Furnish and install an RF wireless assistive listening system for use by the hearing-impaired. The assistive listening system (ALS) shall be capable of broadcasting on 57 channels and be frequency agile. The RF receiver shall be capable of receiving on 57 wide and narrow band channels. The device shall tune to a single channel and user shall not be able to change the channel. The receiver shall have a signal-to-noise ratio of 70 dB or greater and shall have an audio frequency response of 50 Hz - 15 kHz ( $\pm 3$  dB). The device shall employ a unique DSP SQ™ noise reduction technology. The unit shall have a programmable squelch circuit. The unit shall incorporate a multi-functional display that indicates battery status, inventory number and channel. The device shall have the option of being lanyard or belt clip worn and the lanyard shall have the option of an integrated DSP driven neck loop that automatically senses and sends optimized audio signals directly to hearing aids and cochlear implants equipped with telecoils. The neck loop shall have a field strength of 400 mA/m ( $\pm 3$  dB) and frequency response of 100Hz to 5kHz ( $\pm 3$  dB ref 1kHz). The device shall have a USB connector used for inventory control, set up, charging and firmware upgrades. The device shall incorporate automatic battery charging circuitry and use a non-proprietary lithium ion battery. The device shall have additional charging contacts to allow multiple charging options. The ALS system shall have 70 dB SNR or greater, end-to-end. Listen Technologies Corporation products are specified.

Furnish and install the following:

Listen Technologies LT-800-216-01 Stationary RF Transmitter (216 MHz) (Qty: 1 ea.)

Listen Technologies LA-102 Telescoping Top Mounted Antenna (216 MHz) (Qty: 1 ea.)



- Listen Technologies LR-4200-216 Intelligent DSP RF Receiver (216 MHz) (Qty: 4 ea.)
- Listen Technologies LA-401 Universal Ear Speaker (Qty: 4 ea.)
- Listen Technologies LA-430 Intelligent Earphone/Neck Loop Lanyard (Qty: 2 ea.)
- Listen Technologies LA-423 4-Port USB Charger (Qty: 1 ea.)
- Listen Technologies LPT-A107-B Dual RCA to Dual RCA Cable 6.6 ft. (Qty: 1 ea.)
- Listen Technologies LA-304 Assistive Listening Notification Signage Kit. (Qty: 1 ea.)

Product Specification:Listen iDSP Prime Level I Stationary RF System (216 MHz)	
Physical	
Shipping Weight	10.0 lbs. (4.5 kg)